Main Campus

Thunder Bay

1450 Nakina Drive
P.O. Box 398
Thunder Bay, ON
P7C 4W1
T (807) 475-6110

Regional Campuses

Dryden Campus

100 Casmir Avenue
Dryden, ON
P8N 3L4
T (807) 223-3035
F (807) 223-5460

Northshore Campus – Marathon

14 Hemlo Drive, Box 520
Marathon, ON
P0T 2E0
T (807) 229-2464
F (807) 229-3393

Rainy River District Campus – Fort Frances

440 McIrvine Road
Fort Frances, ON
P9A 3T8
T (807) 274-5395
F (807) 274-2462

Greenstone Campus - Geraldton

300 Beamish Ave, Box 368
Geraldton, ON
P8N 1M0
T (807) 854-0652
F (807) 854-0809

Sioux Lookout Campus

70 Wellington Street
Sioux Lookout, ON
P8T 1B1
T (807) 737-2851
F (807) 737-2436

Lake Of The Woods - Kenora

900 Golf Course Road, Box 1370
Kenora, ON
P9N 3X7
T (807) 468-3121
F (807) 468-3601

Thunder Bay Campus

Frequently called numbers

General Inquiry (807) 475-6110
Admissions & Recruitment (807) 475-6213
Registration Services (807) 475-6265
Financial Aid (807) 475-6637
Residence/Housing (807) 475-6381
Library Learning Commons (807) 475-6219
Centre for Continuing Education (807) 475-6550
Distance Education 1-800-563-9435
Fitness Centre (807) 475-6239
Career & Placement Services (807) 475-6193
Student Union (807) 475-6226
Counselling Services (807) 475-6110
Negahneewin College of Academic & Community Development (807) 475-6465
Oshki Anishnawbeg Student Association (807) 475-6314
Learning Centre (807) 475-6618
Health Centre (807) 475-6169

To arrange for a Thunder Bay campus tour call (807) 475-6110
Choose Confederation College!

Confederation College is located in the city of Thunder Bay, a culturally diverse community that serves as the education and government hub of northwestern Ontario. Located in the heart of one of the finest outdoor recreation and tourism destinations in Canada, Confederation College students enjoy the benefits of living and learning in a community that provides a rich lifestyle right at your doorstep.

At Confederation College we change lives through learning. We are committed to meeting the needs of our learners, employers and communities, and we are here to help you succeed in meeting your life goals.

When choosing Confederation College you are choosing a college that continually scores well in provincial surveys. In fact Confederation College ranked first among Ontario colleges with 97.8%* of employers satisfied with the quality of the educational preparation. 92.2%* of our graduates are employed within six months of successfully completing their education at Confederation College.

Within our college we have over 600 caring faculty and staff focused on helping you succeed. The 12,000 full and part time students who attend our college annually are from varied backgrounds and have unique and individual needs. Confederation College staff and faculty want to help you meet your individual needs and goals and are here to support you.

Our programs combine modern classroom learning, using the latest technology, with hands-on, career related experience provided through labs, field placement and co-operative education work terms.

Consider that Confederation College offers:

- A personalized, caring education experience
- Extensive and unique programs
- Modern/innovative teaching facilities using the latest technology
- Extensive library and information resource services
- Career exploration and counseling
- Financial Aid services
- Alternate learning methods/opportunities
- Athletic and recreational facilities
- A central Student Commons area for “gatherings”
- A park-like campus

Confederation College is a place where you can discover your new strengths and grow in positive ways.

We invite you to explore our Calendar fully and to visit our web site for additional information relating to campus life, student support services and facilities.

Choose Confederation College and take a positive step on the path to a great future.

Change your life through learning

If you would like a campus tour, more information or answers to your questions, please call, write, or e-mail our college today.

Confederation College,
P.O. Box 398, 1450 Nakina Drive
Thunder Bay, ON, Canada  P7C 4W1

Telephone: (807) 475-6110
Fax: (807) 623-3956
Toll Free 1 (800) 465-5493
(in Ontario & Manitoba)
E-mail: info@confederationc.on.ca
Visit us on the Web! www.confederationc.on.ca
Important notice to users of this calendar

Confederation College updates this calendar information annually and does make every effort to ensure that the information contained herein is the most up to date however we cannot and do not represent or warrant that all the information contained in the Calendar is accurate. All such information should be expressly checked by the student for accuracy prior to his/her considering enrollment in any course or program. Confederation College expressly denies responsibility or liability to anyone who may suffer loss, or who may otherwise be adversely affected by changes to, deviations from, or errors in, the information contained in the Calendar. Persons using this calendar must do so on that basis, and waive any claim they may have, founded either in contract or tort, for any losses or damages sustained as a result of their reliance upon any information contained in this Calendar.

Confederation College reserves the right to modify, change, add, delete or cancel any program, course, objective, fee, timetable or campus location without notice or prejudice. The College also does not assume responsibility for changes made, after calendar publication, in areas beyond its control because programs and courses are updated annually, textbooks, materials and information change with little or no notice. Please refer to www.confederationc.on.ca/calendar for changes made to this document after the date of publication.

For information regarding programs and courses available at regional campuses, contact the regional campuses at the addresses and telephone numbers listed.

This calendar is available on our website at www.confederationc.on.ca/calendar

and is also available in alternate formats for persons with disabilities.

Contact the Learning Centre at (807) 475-6610 for more information.
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Certification Credentials

In keeping with the new charter for Ontario Colleges, Confederation College will grant credentials based upon the Ontario college provincial framework. Under this framework credentials are differentiated based upon performance expectations and the scope of the curriculum’s required learning outcomes including breadth, depth, and the typical duration of the program. The name of the program on the credential reflects the approved provincial program name at the time of convocation. Beginning with learners graduating after September 2004, the new credential titles for Confederation College postsecondary programs will be:

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For more information, please check the program page for the specific credential awarded. Credentials reflect the name approved by the Ministry of Training, Colleges and Universities at the time of graduation.

Notification of Disclosure of Personal Information to Statistics Canada

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education.

It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrolment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand “outcomes”. In order to carry out such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada student identification information (student’s name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrollment information, previous education, and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only for statistical purposes, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students who do not wish to have their information used are able to ask Statistics Canada to remove their identification and contact information from the national database.

Further information on the use of this information can be obtained from the Statistics Canada website: http://www.statcan.ca or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R. H. Coats Building, Tunney’s Pasture, Ottawa, Ontario, K1A 0T6
A Message From The President

You may wonder if college is right for you. As you weigh your options, please let me assure you that Confederation College is committed to serving you.

Confederation College is exceptional and all our employees take great pride in ensuring that we are meeting the needs of each learner. We are devoted to providing students with the highest quality educational experience that will prepare you for the workforce of tomorrow and a successful future as a citizen.

Our programs are current and relevant in this ever changing environment. We offer over 50 programs from which you can choose and we are certain there is one for you here at Confederation College.

Explore our many programs and if you need further guidance in making your choice, we have a team of specialists who can assist and support you in making your decision.

We also encourage you to visit our campus locations where you will find friendly, dedicated people who truly care about you and your education. Our faculty and staff have a wealth of experience as is evidenced in the outstanding quality of our programs. Here you will learn from, and be supported by, an exciting group of individuals.

We are committed to developing citizens who will be positioned for success in their lives and careers, and we invite you to be one of them. Choose Confederation College and change your life through learning.

Patricia Lang
President
Give today – Invest in tomorrow: TECHNOLOGY AND TRADES (TnT)

With the investments of our many generous donors, we will develop the workforce of the future, educated in green technology and sustainability, and prepared to face new challenges and create new opportunities. The resulting steady infusion of qualified talent in areas where there is a critical need for these skills is key to the long-term stability and growth of the economy of our region.

The $11.5 million capital investment, will:

- attract youth, First Nations, and displaced workers into our enhanced programming mix
- graduates will be educated in greening processes, critical for sustainability and economic prosperity in northwestern Ontario
- an increase in graduates will help meet the new demand for a workforce with 21st century skills

Your commitment to northwestern Ontario extends beyond serving the immediate needs, reaching to the future through the ‘greening’ of our technology and trades program curricula and learning facilities. You can help support this exciting and innovative initiative for Confederation College and the students it serves.

Contribution opportunities are available within all four of our TnT program clusters:

- Environmental/Water Resource-Based
- Transportation Technology
- Manufacturing
- Construction

The Foundation sincerely thanks all past and current donors and enthusiastically welcomes new donors. We have many exciting projects that need your support.

Please consider making a gift to Confederation College Foundation’s Alliance of Excellence Campaign. Confederation College Foundation Charitable Registration #84252 0678 RR0001

www.confederationcollege.ca/foundation
Admission Requirements

The minimum admission requirement for a postsecondary program is an Ontario Secondary School Diploma, or its equivalent, with minimally 2 senior credits at the college, college/university or university preparation level. Some programs have additional admission requirements. For specific admission requirements, please see the program descriptions included in this publication or contact our Admissions Office at (807) 475-6213.

Learning Skills

Student success in College depends at least as much on well developed learning skills and attitudes as on prior academic achievement, according to recent research. While achievement is of major importance in program admissions, other skills – such as being able to work independently, participate in a team, be well-organized, develop good work habits, and show initiative – are those that result in greatest success in college. By contrast, students lacking these skills are less likely to become well integrated into college programs and more likely to leave without completion. Applicants should therefore ensure that they have thoroughly developed these skills and attitudes before beginning their college programs.

Mature Student

Applicants 19 years of age or older (on or before a program begins) and who do not possess an Ontario Secondary School Diploma, or its equivalent, may be eligible for admission.

Mature applicants will have demonstrated the required competence level: 1) on our Mature Student tests; or 2) by successful completion of significant postsecondary courses; or 3) by completion of the recommended courses in our Academic & Career Entrance (upgrading) program. In addition, mature student applicants must meet any specific entrance requirements of the program to which they are applying; refer to the individual program descriptions for additional admission requirements.

College Access Programs

Confederation College offers preparatory programs for applicants who require certain academic skills or readiness experience to be successful in a post-secondary program of study, and who wish to pursue college studies.

Successful completion will qualify the applicant for consideration for admission to Ontario Colleges of Applied Arts and Technology.

Ontario Secondary School Diploma Equivalents

Confederation College will recognize the following as equivalent to the Ontario Secondary School Diploma:

- A secondary school graduation diploma issued by another Canadian province;
- Successful General Educational Development (GED) Tests;
- General Certificates of Education at the ordinary level (with credits in 5 appropriate courses) from the United Kingdom and Commonwealth countries;
- Senior Middle School with minimum grade average of 80% from China
- A Hong Kong English School Certificate with passes in six academic courses;
- A grade 12 diploma from the United States (with a minimum of 16 credit units including 4 English credits);
- All Higher Secondary Certificate (HSC), All India Senior School Certificate; Pre-University Exam Certificate or Intermediate Exam Certificate from India
- An Academic & Career Entrance (ACE).

Home School Applicants

Confederation College is currently developing an admissions policy for home schooled applicants into postsecondary programs. In the interim, applicants will be reviewed on an individual basis and are encouraged to apply through the Ontario College Application Service and provide detailed supporting documents to the Admissions office.

English Proficiency Equivalent

Applicants who have been educated in a system where English is not the official academic language must provide proof of English proficiency. For diploma programs we require one of the following:

- iBT TOEFL (Test of English as a Foreign Language) 61
- IELTS (International English Language Test) 6.0
- MELAB (Michigan English Language Assessment) 75
- CPE (Cambridge Proficiency Exam) Level 1
- CAEL (Canadian Adult English Language Assessment) 60

For Ontario College Graduate Certificate (Post Diploma) Programs we require: iBT TOEFL 80 & IELTS 6.5

Admission can also be gained by writing the on-campus ACCUPLACER computerized English Proficiency test provided by the College Board, www.collegeboard.com.

Health programs require a score of iBT TOEFL 80 (except Pre-Health).

Students With Disabilities

Confederation College is committed to providing accommodations to students who have a documented disability. Applicants with a disability are encouraged to begin working with the Learning Centre as early as possible to develop a plan to support and facilitate their academic success. For more information contact:

Disabilities Counsellor c/o Learning Centre
Confederation College, 1450 Nakina Drive, PO Box 398
Thunder Bay, Ontario P7C 4W1
Phone (807) 475-6610 TTY: (807) 475-6660
Fax: (807) 623-3956
### Admission Process

#### Procedures for Postsecondary Applicants

Applications are to be submitted to the Ontario College Application Service (Ontario Colleges). Applicants can apply online with the Ontario College Application Service by visiting their website at http://www.ontariocolleges.ca.

Paper applications are available from any Ontario Secondary School Guidance Office and all campuses of Ontario Community Colleges. New applications and updated instructions will be published each year. Please ensure that you acquire and use the correct application for the period you are applying to.

If you are currently attending an Ontario high school, contact your Guidance Office so your marks can be submitted electronically to Ontario Colleges. If you are not currently attending an Ontario high school, please arrange for a high school transcript to be submitted to Ontario Colleges with your application. Transcripts need to be submitted by Feb. 1 for best admission consideration.

Postsecondary transcripts are considered in our admission/selection process. Postsecondary transcripts from an Ontario College or University should not be sent to Ontario Colleges but requested through their online transcript request service. Alternatively, you can arrange for official postsecondary transcripts to be sent to our Admissions & Recruitment Office directly from the institution(s) you attended.

Any other required documents, other than academic transcripts, such as letters of reference or questionnaires, should be sent directly to Confederation College. All applications received by the Ontario College Application Services by February 1st will be treated equally. After February 1st applications will be considered on a first-come, first-served basis provided there are vacancies. Applications to a program will be accepted until the program is full with a realistic waitlist established.

If you want to make changes to your application, i.e. change the college or program choice(s), you can make changes to your online Ontario Colleges application. We recommend that you first contact the College to see if there are still available program seats.

#### Exceptions to applying through Ontario Colleges - College Programs

Applicants applying to a part time postsecondary program, or Confederation College students reapplying or changing programs beyond semester one can apply on an Internal Confederation College Application Form.

#### Selection Criteria

When more qualified applications are received by February 1st than we have program seats available, we will use formal selection techniques to determine final selection. The application and academic transcripts indicating the applicant is registered in all required courses must be received by Feb. 1.

Selection scores and applicant ranking are used only when we cannot accept all qualified applicants whose applications were received by an equal application consideration date. Typically, this occurs with the following programs: Medical Radiation Technology, Dental Hygiene, Paramedic, Aviation Flight Management, Early Childhood Education, Film Production, and Multimedia Production, although each year is different. These programs have admission and selection criteria beyond the minimum admission requirements. Please refer to the program descriptions in this publication or contact our Admissions Office for details.

Permanent residents of Ontario will be given admission priority, followed by permanent residents of other Canadian provinces and territories and then citizens of other countries for our first round of Offers.

Due to the high number of applications we receive for the limited seats in our Dental Hygiene, Paramedic, and Medical Radiation Technology programs, we are only able to consider applications if the applicant is a permanent resident of Ontario, with a complete application as of February 1st.

The limited program seats available in oversubscribed programs may be filled by secondary school graduates/potential graduates or mature students. Please refer to our Mature Student definition on Page 9. Where selection techniques are not outlined, candidate selection in an oversubscribed program occurs as follows:

**a. Secondary school graduates/potential graduates.**

Selection averages for applicants who apply by Feb. 1 are based on available grade 11 and grade 12 marks. The selection average will be calculated using Grade 12 English and the next 2 highest senior course grades at the college, college/university or university level. (If any courses other than English are required for program entry, these will be used as part of the 3 senior grades in the selection average). The exceptions are our Health Science programs, where selection is made using just the required courses.

The college may consider substitutions of grade 10 courses where marks in required courses are not available.
b. Mature Student 19 years of age or older and no OSSD or equivalent.

Provided other admission requirements have been met, mature student applicants are selected to fill available seats based on the mature student test results/postsecondary grade point averages/upgrading marks and marks in any required courses. Secondary school university preparation or Ontario Academic Credits (OAC or grade 13) courses completed at a college or university are not required for entrance, except for applied degree programs.

Acceptance and Waitlist Order

Eligible applications received prior to February 1st will be given first admission consideration.

Once all applicants who applied by the equal consideration date have been considered, available program seats will be assigned based on the selection averages calculated using any marks available at the time the program seat is available. Waitlist positions for those who apply after Feb. 1st can change as other marks become available.

Applicants placed on a wait list are encouraged to accept, by the deadline date, other offer(s) if they have been received. Their wait list position status will not be affected. Applicants will be contacted if a seat becomes available and have the opportunity to change their acceptance.

Use of Postsecondary Grades in Selection

At the time of application, applicants can request postsecondary course substitutions for required high school courses to be used in the selection process.

The cumulative grade point average for significant postsecondary courses can be converted to a selection grade for non-required courses used in selection. Contact the Admissions Office for details.

Graduates of Postsecondary Programs

- If the postsecondary transcript indicates graduation from a college or university program of a similar discipline, with an overall grade point average of 3.0 or higher (or minimum overall average of 70%), 10 additional selection points will be awarded. For example, a selection score of 75% would change to 85%
- If the program the applicant graduated from is from a very different discipline, but the same overall average has been achieved, 5 additional section points will be awarded. (A selection score of 75% would change to 80%).

Completion of Significant Postsecondary Courses

- If the transcript(s) indicate a minimum of five postsecondary courses, or 3 full university credits, with an overall grade point average of 3.0 or higher (or a minimum overall average of 70%), in a similar discipline area, 5 additional selection points will be added to the selection score. For example, a selection score of 75% would change to 80%.

Winter Intake Programs Commencing January

All applications received at the Ontario College Application Services on or before November 1st will be treated on an equal basis. After this date, applications will be accepted on a first-come first-served basis.

Offer Of Admission

Successful applicants will receive Offers of Admission with instruction on how to confirm acceptance. You could receive more than one Offer of Admission, depending on the number of colleges and programs listed on your application. You can only accept one offer to one program at any one college.

Acceptance of offers must be confirmed with the Ontario College Application Service by the specified date. Failure to notify Ontario Colleges of your acceptance and non-payment of tuition fees to Confederation College by the date specified on your Offer of Admission will result in a loss of your program seat. Offers of Admission are conditional on successful completion of specified admission requirements, timely receipt of the acceptance form and tuition fee payment.

Admission Review

Applicants to Confederation College NOT accepted into their program choice may seek an Admission Review. Applicants must request an Admission Review in writing within 2 weeks of receiving application status notification. The request should include:
- the applicant’s name
- the program to which the applicant applied
- reason given by the College for not accepting the applicant
- reason(s) the applicant requests the Admissions Review

On receipt of a written request, the Admissions Office will review the applicant’s file and respond to the request for review.
Registration For Fall And Winter Terms

Applicants are encouraged to select courses as soon as possible upon receiving their registration instructions.
1. Fees are due prior to registration. Due dates are included in the Offer of Admission.
2. Candidates not completing the full registration procedure by the deadline date may lose their reserved space. The program seat is then offered to the next applicant.
3. Qualified applicants can register AFTER the deadline date if program space is available and if it is still feasible to begin the program. Registrations completed after the deadline date will be subject to a late registration fee.
4. Candidates choosing to pay by the split fee option are required to pay the outstanding balance prior to December 1st. Those choosing to pay by split fee option are assessed a service fee.

Full-Time Definition

You are considered a full-time student when you are enrolled in at least 70% of the semester course hours or 66 2/3 % of the required program courses for any semester (exempt and withdrawn courses are not considered in the calculation). Please note that this definition differs for Ontario Student Assistance Program (OSAP) eligibility.

Academic Policies and Procedures

A full listing of Academic Policies and Procedures can be found on the college website at www.confederationc.on.ca/academicpolicies.

Program Suspension/Cancellation Policy

In the event that it becomes necessary to suspend or cancel any program, Confederation College will normally provide students who have registered and started classes with the opportunity to complete the program within the normal time period (i.e., the Ministry approved program duration). The College assumes no responsibility to offer a suspended or cancelled program, in full or in part, beyond this normal time frame.

Where it is more practical for both the students and the College to transfer students to another college, Confederation College will assist the student to become enrolled in the same program offered by another college.

Transfer Credits

If you have successfully completed equivalent courses at a college or university, or through a high school articulation agreement, you may be granted course, semester or study year exemptions.

An exemption based on another credit course, or courses, can be granted for a credit course that is part of a student’s program.

Credit will only be considered for courses taken at other institutions with a grade of 60%, “C” or higher.

Requests for transfer credits should be made prior to May 1st for the academic year.

Details on transfer credit application process are provided to the students with their offer of admission and are available on the college website or by contacting the Registration Services.

Other Methods Used To Recognize Competencies

Testing for exemption

There are a few courses that test students on or before the first day of classes. If a student demonstrates competency of the course outcomes, an exemption grade may be awarded.

Prior Learning Assessment & Recognition (PLAR)

We recognize that the knowledge and skills you have acquired from a variety of experiences in your personal and working life may be equivalent to what is taught in some college courses. Prior Learning Assessment and Recognition (PLAR) is designed to assess and evaluate this learning and compare it to college credit courses. Challenge exams are available for computer and communication courses. To apply for PLAR assessment, contact your Program Coordinator or for more information call the Registration Office. There is a non-refundable fee for this service of approximately $120.00 per course.

For more information, look for PLAR on our website at http://www.confederationc.on.ca/plar/
Second Diploma Or Certificate

Students with a Confederation College diploma or certificate can earn a second diploma or certificate in a different specialization area by completing either through credit exemption, PLAR or study, all of the second diploma/certificate required courses. Earning a second diploma/certificate requires students to complete by additional study the minimum equivalent of 25% of the total program hours.

Program Curriculum

The curriculum for each college program has three components:

1. **Vocational core** - vocational education encompasses the learning outcomes and corresponding knowledge, skills and attitudes that will enable graduates to meet the requirements of specific jobs and careers.

2. **Essential Employability Skills** - an essential employability skills education includes learning outcomes and corresponding knowledge, skills and attitudes that will provide the foundation for on-going academic, vocational and personal success throughout one’s lifespan. The essential employability skills are common to all college programs rather than specific to particular fields of study. They include communication, numeracy, critical thinking and problem solving, information management, interpersonal and personal skills.

3. **General Education** - general education emphasizes the expansion of the students’ knowledge, skills and attitudes beyond their vocational and essential employability skills education.

Articulation Agreements

Articulation agreements between Confederation College and a number of universities facilitate university admission for Confederation College graduates by giving credit for college study. Our graduates may receive credit for several courses, or for a year or more towards a university degree. This allows students to build practical skills and knowledge at the college level and to build on this foundation with more theoretical learning at university, an excellent return-on-investment for postsecondary tuition.

University degree graduates also have the opportunity to return to college to apply their learning. Articulation agreements also apply to high school students moving to college to recognize the learning that has occurred.

Confederation College endeavours to ensure the contents of our articulation agreements are as current, accurate and reliable as possible (refer to notice inside calendar cover). However, with the changing nature of education and training programs, and the right of institutions to alter their agreements and policies, these can change. Clients are advised to contact the appropriate admissions office at the partner institution and with our college to ensure that the provisions stated below are still supported by our college and partner institutions.

Additional information on collaborative programs, articulation agreements and credit transfer between Ontario universities and colleges is available on the Ontario College University Transfer website at http://www.ocutg.on.ca also refer to our college website at www.confederationc.on.ca/articulation

Teaching And Learning Strategies

Confederation College employs a wide variety of strategies to support our teaching and learning. The primary goal of the college is to provide a student-centred approach to learning and to give students the learning skills that will help them become successful lifelong learners.

Students may experience a range of activities from the traditional lecture to independent learning on the Internet. The latest technologies employ video, the electronic or “virtual” classroom with video conferencing links, CD ROM, computer assisted learning, computer managed learning, collaborative learning on computer and research or interactive communications using the Internet. A dynamic student-centred learning environment will use a mix of these strategies within courses and programs to meet the learning styles of the diverse student and client group.
Financial Aid

Fees

Tuition Fees
Tuition fees are established annually by the Ministry of Training, Colleges and Universities. Please visit our website at www.confederationc.on.ca/admissions for detailed information on tuition fees.

OSAP Services

Financial Aid Office
Our goal is to provide financial aid information to potential students and to ensure that our students receive the maximum financial assistance to which they are entitled. The following financial services are available to our students. These services and policies are effective at the time of printing and are subject to change.

Ontario Student Assistance Program
A major function of the Financial Aid Office is to administer the Ontario Student Assistance Program (OSAP). Postsecondary students who meet OSAP’s citizenship and residency criteria, may receive assistance with their educational costs through this program. Applicants are assessed based on their financial need. The program is a supplement, but not a replacement for family and other financial resources students have available. The Ontario Student Assistance Program consists of seven individual plans:

Canada Portion of the Canada-Ontario Integrated Student Loan
This plan assists students enrolled full-time (minimum 60% course load) in approved postsecondary programs of twelve weeks or more in duration. Students with a permanent disability (documentation required), are eligible with a minimum course load of 40%. The loan is interest free while you study and repayment begins six months after you cease full-time study.

Ontario Portion of the Canada-Ontario Integrated Student Loan
Students whose financial need is not met through the Canada Portion of the Canada-Ontario Integrated Student Loan will be assessed for the Ontario portion of the Canada-Ontario Integrated Student Loan. This loan is interest free while you study with repayment beginning six months after you cease full-time studies. Maximum loan assistance depends upon whether the student is single, married, or a sole support parent, and the number of weeks in the study period.

Ontario Work Study Plan
To qualify you must be an Ontario resident and have a demonstrated financial need, i.e. costs not covered by OSAP; high debt load; needs not met by loan maximums and be recommended by the Financial Aid Office. The amount you earn will depend on your financial situation. Work positions are located on the college campus.

Ontario Special Bursary Plan
This plan assists part-time postsecondary students and students enrolled in upgrading courses. Qualifying students may receive bursary assistance with tuition, compulsory fees, books, equipment, local transportation and child care costs.

Child Care Bursary Plan
Married and sole support parent students who have three children or more and are eligible for loan assistance may qualify for a non-repayable bursary to assist with child care costs.

Bursary for Students with Disabilities
Students with disabilities who are eligible for loan assistance or assistance through the Ontario Special Bursary Plan may qualify for a non-repayable bursary to assist with disability related educational expenses not covered in the standard assessment.
Financial Aid

Part-time Canada Student Loan Plan
Eligible part-time students may receive a loan to assist with tuition, books, transportation, child care costs.

Academic Progress
To remain eligible for OSAP you must maintain satisfactory academic progress. If you fail to complete the academic requirements of your program of study, you may be ineligible for further OSAP funding.

Withdrawals
Students who are receiving OSAP are encouraged to consult with the Financial Aid Office when they are considering dropping courses or withdrawing. OSAP funding is contingent upon attendance and the percentage of course load they are taking. Students in receipt of financial assistance through OSAP who withdraw from the college and become eligible for a refund, are advised that the refund will be forwarded to the National Student Loan Centre, as a payment against their loan.

OSAP Appeals
Should you have special circumstances warranting consideration during the application process or should your financial status change after applying or receiving an award, contact the Financial Aid office to discuss your assessment and possible grounds for appeal.

Further OSAP Information
Should you have questions or require further information on the above plans, please contact the Financial Aid Office or access the OSAP website at http://osap.gov.on.ca. OSAP applications are available on-line at http://osap.gov.on.ca. To ensure that a portion of your award is available at the start of your academic year, we urge you to apply 10 weeks in advance. To access information regarding your application or entitlement, please check the above website or call 1-866-330-3331. You do not need to be accepted to a program before applying for OSAP.
Other Services

Bursary, Scholarship and Awards Program

The Bursary, Scholarship and Awards Program provides financial assistance to needy students, while recognizing others for their academic accomplishments or extracurricular involvement. Applications for Entrance Awards are available in the spring and can be found online at www.confederationc.on.ca/financialaid. Applications for the Undergraduate Awards program will be made available online at www.confederationc.on.ca/financialaid/ during the Fall semester. An email notice will be sent advising when the application is posted to the web. Students must be studying on a full time basis to apply. Graduate Awards recognize academic achievement and contribution to the college community. Recipients must have studied full-time at Confederation College during their final year. Students do not apply for graduate awards.

Budget Counselling

Most students have limited funds available with which to meet their costs for the academic year. For these students, budgeting can be the first step towards sensible money management. To help you stretch your dollar through the school year, we urge you to contact the Financial Aid Office regarding our budget counselling service.

Student Emergency Loan Fund

Through this fund, short term loans can be made available to students experiencing temporary financial difficulties. These loans are intended to assist students with educational related expenses. Due to limited funds, we request that you only consider using this fund after you have exhausted all other possible resources, i.e. family. The following service charge applies: $5.00 for the first $100.00 borrowed plus $2.00 per $100.00 thereafter.

Payment Deferrals

Full-Time Tuition

Students with financial difficulties, who are unable to pay their tuition fees by the required date may be eligible for a Tuition Deferral. Please refer to the Tuition Deferral Policy at www.confederationc.on.ca/financialaid/ prior to contacting us to arrange for a tuition deferral. There is a non-refundable fee of $150.00 required before a tuition deferral can be processed. $100.00 of this fee will go towards the tuition fee and the $50.00 is a service charge. NO deferrals will be issued without receipt of the $150.00. Methods of payment are cash, certified cheque, money order, Interac, Visa or MasterCard.

Part-Time Tuition

Students studying part time and receiving funding from the Ontario Special Bursary may be eligible for a tuition deferral. No service charge will apply.

Books

After program registration, students can apply for a book deferral. There is a $15.00 non-refundable service charge required.

Residence

There is a $50.00 non-refundable service charge required for residence deferrals. Please contact the Residence Manager at (807) 475-6383 for further information.

Eligibility and confirmation of repayment must be approved by the Financial Aid Office before any deferrals are issued.

For further information on the above services, please contact:

Financial Aid Office
Registrar’s Office Area, Room A122, Shuniah Building
Monday to Friday: 8:30 a.m. - 4:30 p.m.
Telephone: (807) 475-6637 Fax: (807) 623-4512
E-mail: stntfin@confederationc.on.ca
International Students

International Education
Confederation College offers a number of educational opportunities for International Students and organizations incorporating a variety of methods including student exchanges, study abroad, long-term or larger scale international projects for training and development, short-term international contract training, English as a Second Language, licensing agreements and foreign campus development for joint diploma programs.

Our college has hosted a number of international students from countries as far as China, Korea, Vietnam, Nepal, India, Nigeria, Venezuela, Paraguay, Iran, the Netherlands, France, Mexico, Qatar, and the United States. Our International Students are enrolled in a number of programs from Mechanical Engineering, Business Accounting, Practical Nursing and Hotel Management to name a few.

Confederation College international programs are delivered in a number of ways:
• On campus programs and classes with an average of 50 students per year attending
• An oversees joint diploma program with China incorporating 40 students
• Summer programs with an average of 50 students

A total of 250 international students will participate in a variety of programs in Canada and abroad in the 2009/2010 academic year.

Confederation College is also involved in a number of alliances with educational partner colleges and universities in China, Korea, the Netherlands, France, Finland and Mexico.

Admission to Diploma Programs
(with the exception of Health Programs)
In order to receive an immediate Letter of Acceptance to a full time diploma program each international applicant must fulfill academic admission criteria for specific program choices and submit the following:
• Completed and signed application form
• Non-refundable application fee of $95 CAN
• Notarized marks sheet, translated AND in the original language
• Notarized proof of graduation, translated AND in the original language
• Current (within one year) English proficiency score
  (see page 9 for other acceptable test scores)
  - iBT TOEFL 61
  - IELTS 6.0 or
  - On-campus English proficiency assessment

Admission to Ontario College Graduate Certificate Programs (post diploma/degree) and Health Diplomas Programs
Application package must contain items above and:
• iBT TOEFL 80
• IELTS 6.5 or
• On-campus English proficiency assessment

Applying to Diploma or Certificate Programs
International students can choose from the following application procedures:
1. Contact the International Education Centre (IEC) and request an internal application package or go to our website. Return the complete application form, accompanied by the necessary documents and $95 CAN application fee directly to:
Confederation College, International Education Centre
1450 Nakina Drive, P.O. Box 398
Thunder Bay, Ontario CANADA P7C 4W1
mpolowic@confederationc.on.ca
2. Apply through the Ontario College Application Service (OCAS). Go to http://www.ontariocolleges.ca and click on ‘apply’ then ‘application checklist’ and then ‘from outside of Canada’ to obtain the international application guide. Application fees stated on this website are applicable.

Application Steps for ESL and EAP only
• Contact the IEC for an application package
• Complete and sign an International Student Application Form
• Enclose the $95 CAN non-refundable application fee
• EAP applicants will complete an on-campus assessment to ensure entrance requirements
• If applicants apply for both EAP/ESL AND a diploma or certificate program simultaneously, then notarized transcripts and diplomas are required

Tuition Fees
International tuition fees for the 2010/2011 academic year are $12,220.00 CAN for the majority of postsecondary programs and do not include costs for educational materials, textbooks, accommodation, food. Tuition fees include international health insurance, all educational costs, including administration, management, student and college services and activity fees as well as direct costs with the exception of some program placement fees. A $400 non-refundable confirmation fee should accompany the signed Offer of Admission. The confirmation fee will be applied to tuition costs upon arrival at the College subject to College refund policy. Tuition fees are due and payable in full before beginning classes. Please note: some programs will have higher fees.

* Note, when we speak of fees, we should note that a $400 non refundable confirmation fee is in Canadian dollars. Noted in the total for tuition solely.
International Education Programs

International Education Centre

Airport pick-ups are available upon confirmed notice 72 hours prior to arrival and with receipt of service fee payments. New students also receive campus and city tours and, as well as, an orientation. Requests for more information, including additional student exchange opportunities should be directed to the International Education Centre.

Accommodation

The Confederation College Homestay Program is available for ESL students seeking a supportive home environment. International students are encouraged to take advantage of the comfort and convenience of Sibley Hall Residence. For more information regarding the Residence, see Accommodations - Sibley Hall Residence.

International Student Health Information

Medical services are very expensive in Canada. To protect the student, comprehensive medical insurance is now included in tuition fees. Information is available in the International Education Centre. Physician clinics as well as nursing services are available on-campus in the Health Centre during the regular academic year.

English as a Second Language (ESL)

English as a Second Language (ESL) is a non-credit program designed to help learners grow more confident in reading, writing, listening, and speaking in English. The program includes six levels with classes Monday to Friday, 25 hours a week assisting learners with Low-Beginner to High-Intermediate English language fluency level. Each level is 16 weeks in length with a new in-take every 8 weeks. Upon arrival, learners are assessed and placed in the most appropriate level at the time. For information and start dates contact the International Education Centre.

English for Academic Purposes (EAP)

The 16-week EAP program is designed for international students who possess an intermediate to high-intermediate level English language fluency. It focuses on grammar, learning strategies, summary and short essay writing, pronunciation and reading for comprehension, speed and accuracy. A passing grade in the EAP program will meet the College’s English Proficiency requirement; therefore, admission into a post-secondary program will not require a TOEFL score. To be eligible for admission into the EAP program, you must complete the College’s EAP Program Assessment Package. Request for more information and start dates should be directed to the International Education Centre.

English for Aviation Mechanics (EAM)

This 4 to 6 week summer program includes two weeks of ESL classes with a focus on developing communication skills related to the aviation industry. The remainder of the time will be spent introducing students to various topics related to the aviation field including, aircraft maintenance, avionics, aerospace manufacturing, and flight management. Students will have the opportunity to use the flight simulators and may have the opportunity to participate in an optional flight. The program also includes various off-campus activities to introduce participants to a variety of typical Canadian activities such as outdoor sports, local festivals, and concerts.

iBT TOEFL Testing Centre

Confederation College is now an approved ETS Certified Test Administration Site. Go to www.ets.org to confirm testing dates or contact our International Department.

ESL Summer Experience

For a short summer ESL experience we offer 2-4 week summer sessions of in-class lessons supported with a variety of related activities. These may include city tours, visits to museums and art galleries, participation in local music and cultural festivals, swimming, hiking, sailing or horseback riding. The objective of the program is to improve your confidence while experiencing a variety of Canadian outdoor activities. The best way to learn a language is to meet new people and have fun!

Teaching English as a Foreign Language (TEFL)

This program is designed for college or university graduates wishing to prepare themselves to teach English as a foreign language. No teaching experience is required but a solid background in English is needed. The program consists of a 100 hour theory component and a 20 hour practical component.

Study Abroad Program

To enhance international respect, awareness and communication, Confederation College continues to expand its network of schools outside of Canada, offering student exchanges. Opportunities are open to every student attending Confederation College. Students can continue to earn credits towards their diploma or transfer credits to earn a degree. One semester programs allow students to hear and learn new languages and experience a different culture as they travel and see the world.

IEC also arranges various short term study abroad programs or opportunities for degree study with partner universities.

For more information on any of these programs, please contact:

Maritta Polowick, ESL Co-ordinator
Telephone: (807) 475-6400
Fax: (807) 623-7250
E-mail: mpolowic@confederationc.on.ca
Services for Students

Residence Life - Sibley Hall Residence

Sibley Hall Residence is a community like no other; the Staff of Sibley Hall work to create an inclusive environment where diversity and uniqueness is encouraged and celebrated. Student success is a way of life in residence, all activities and programs are designed to support and enhance the educational experience. Promotion of services and a whole community approach ease the fear of asking for help. From first contact until convocation our students feel a sense of belonging.

Sibley Hall features a co-ed facility for 229 students who live in a variety of room styles in our dorm-style building, which is centrally located on our Thunder Bay campus.

Sibley Hall Offers

- Convenience for students away from home for the first time
- Fully furnished rooms, including telephones, small fridges and microwaves and full cable.
- Safety and security - staffed reception desk and 24 hour in-house security staff.
- Short walking distance to every building on campus (excluding Aviation Centre of Excellence) and close to public transit. The Aviation Centre of Excellence is just a short drive away.
- Activity room with projection television and digital cable
- Snack and soft drink vending machines
- Local telephone, as well as high speed internet are included (long distance extra). Close proximity to services and facilities - take advantage of labs, library, Fitness Centre, and the ultra modern College Health Centre
- A fully diversified event calendar of organized social activities promoting social interaction, community awareness and personal growth
- Two coin operated laundry facilities
- Two common areas on each floor, one social lounge with television and cable and one lounge devoted to quiet study.
- ATM machine and change machine.
- Music Room

Each floor has one or more returning students who are trained as Resident Advisors to ease the transition into campus life and provide support, and assistance.

When you move into Sibley Hall you agree to abide by the rules and regulations in our 2009-2010 Sibley Hall Residence Handbook. Be sure to read the handbook which will be mailed to you with your Residence Contract Package once you have been accepted into Sibley Hall Residence.

Room Rates

The rates for residence rooms range from $3,400.00 to $4,200.00 depending on the room style selected.

Meals

One of the advantages of living in Sibley Hall Residence is the time you save planning meals, shopping, cooking and cleaning up. With the College Meal Plan this is all taken care of for you. This mandatory meal plan works on a cashless, debiting barcode system. Our College cafeteria offers a wide variety of food choices, including microwavable meals which can be reheated in your room.

Residence operates on a first come, first serve basis. If you are interested in living in Sibley Hall, it is recommended that you complete the application form, along with your $250.00 deposit and return it to the Manager, Residential Life as soon as possible. Your application will not be processed without the deposit.

It is very important to note that a student is contracted for the entire academic period regardless if the student finds other accommodation, leaves school, or is asked to leave his/her program. You must remain a full-time student to stay in Residence.

Confederation College, Sibley Hall Residence
P.O. Box 398, Thunder Bay, ON
P7C 4W1
Telephone: (807) 475-6383 Fax: (807) 625-9596
E-mail: residence@confederationc.on.ca
Alumni Services

After graduating from Confederation College, you will join a family of over 34,000 Alumni worldwide who are members of the Confederation College Alumni Association. Upon graduation, you automatically become a lifetime member of the Alumni Association and as such can access a variety of benefits and services designed specifically for you. Your association consists of fellow graduates who believe their educational experience at Confederation is not restricted to their years at school but continues throughout their lives.

Confederation’s genuine interest in you continues after you graduate. The Alumni Office acts as your link between the Alumni Association and Confederation College. It serves and represents Alumni from all campuses of the College and provides a vehicle for you to become involved in its advancement and the opportunity to contribute to its ongoing success.

Alumni can maintain their ties to the College, its faculty and fellow Alumni through the Association. You may wish to assist in promoting Confederation College to ensure its continuation as a valued institution. To update your contact information please visit our website at www.confederationc.on.ca/alumni and click on Register/Update.

The Alumni Association Office is responsible for the maintenance of your records, the coordination of member benefits and services such as low cost Home and Auto Insurance Coverage from TD Insurance Meloche Monnex, continued use of the Patterson Library Commons, reduced rates at the Confederation College Fitness Centre, and more. You can learn more about Alumni Services by visiting our website at www.confederationc.on.ca/alumni/.

Contact: Susan Macey
Alumni & Special Events Coordinator
Telephone: (807) 475-6509 Fax: (807) 622-4958
E-mail: alumni@confederationc.on.ca

Career and Placement Services

Career and Placement Services provides assistance to students and graduates interested in obtaining full-time, summer and part-time employment. A variety of employment and placement services are also available, at no cost, to employers seeking to meet their hiring needs.

Through the use of these services, students and graduates are able to develop relevant job preparation skills. As well, by maintaining current employment information, we are able to assist students with pursuing employment opportunities. Employers are also welcomed and encouraged to meet their hiring needs through the use of our many recruitment services.

Student and Employer Services include:
• Resume & Cover Letter Development
• Job Preparation Seminars
• Graduate Employment Statistics & Report
• Advertising Job Opportunities/Job Board
• Electronic Job Bank
• Employer Listings
• Promotion of Student/Graduate Hiring
• Development and Monitoring of Co-op and Field Placements
• Graduate Employment Registration
• College Career/Job Fair
• Summer Job Fair
• Employer Recruitment Services
• Employer Liaison
• Resource Material
• Occupation, Career & Labour Market Information

For more information on the above services, please contact us at:
Telephone: (807) 475-6193
Fax: (807) 622-8739
E-mail: career@confederationc.on.ca
Admissions & Recruitment

A major function of Admissions & Recruitment is to provide secondary students, counselors, teachers and parents with current information on college programs and services. Consultation with adult learners, employers and other educational institutions is also an important function of this service. Some of the information provided includes program offerings, college services, career opportunities in particular fields, college application procedures, admission requirements and tuition/book costs.

Additional College Liaison services include:

• Secondary/Elementary and Group Presentations
• Special Events
• College Information - print or video materials
• Liaison with College Faculty and Staff
• Passport Program

For further information on the above services please contact us at:

Tel: (807) 475-6110
Toll Free: 1-800-465-5493 (ON/MB Callers)
Fax: (807) 623-3956
E-mail: info@confederationc.on.ca
Location: Room 153, Student Success Admissions & Recruitment, Shuniah Building
Hours: Monday - Friday: 8:30 a.m. - 4:30 p.m.

Confederation College, Admissions & Recruitment
P.O. Box 398, 1450 Nakina Drive
Thunder Bay, ON P7C 4W1
or check out our website www.confederationc.on.ca/admissions/

Computer Services

All students at Confederation College have access to a full range of modern computing services including:

• Access to numerous classroom computer labs as well as dedicated ‘open-booking’ labs in all College buildings
• Internet access from all computer labs, Internet cafe workstations, as well as from wireless access points deployed throughout the College campus
• A personal College account with e-mail access
• Resources to establish a personal web page
• An allocation for printing in the computer labs
• Access to industry standard computer hardware and software (including Microsoft Office Suite 2007 and Windows XP Pro)
• Technical support assistance through the Computer Services Help Desk (475-6488), as well as several Help Desks located across the College.

The College operates a state-of-the-art computer network with approximately 1500 computers attached to it. Internet access to and from the College is provided by a very high speed fibre optic connection to the ORION network.

The College’s various applications and systems are provided through numerous Windows and Unix based server platforms.

For all information technology related questions or technical support, please contact the Computer Services Help Desk via the live line, by visiting us on the 3rd floor of the Shuniah building, or via e-mail at helpdesk@confederationc.on.ca.

General Hours of Operation for the Help Desk and most Computing Labs:

Monday - Thursday 7:30 AM – 11:00 PM
Friday 7:30 AM – 9:00 PM
Saturday & Sunday 9:00 AM – 5:00 PM
Counselling Services

Confederation College provides a counselling service for all College students. During college life, students may encounter situations in which counselling can be of considerable assistance such as:

• Selecting a career
• Orientation to College life
• Choice of program
• Difficulties in studies
• Stress Management
• Personal problems
• Relationship with others
• Assessing interests and abilities
• Establishing goals and objectives
• Selection of options
• Transfer of program or course

Students are encouraged to make appointments with the counsellors through the counselling secretary or through a faculty advisor. If there is an emergency or urgent situation the student should specify the urgency, and a counsellor will be able to see them more quickly.

Additional support services are available for Aboriginal, International and Special Needs students.

Counsellors are aware of many of the resources and supports available to students in the community (i.e. legal aid, drug and alcohol programs etc.) and will assist in referrals where appropriate.

1st floor, Shuniah Building.
Monday - Friday 8:30 a.m. - 4:30 p.m.
Telephone: (807) 475-6112
Fax: (807) 623-3956
E-mail: counsel@confederationc.on.ca

Fitness Centre

All full-time Confederation College students are Gold members of the Fitness Centre whose facilities include a 166 metre banked track, badminton, basketball, large well equipped weight rooms, general purpose rooms, sauna/steam room, lockers.

Students also now have access to the Nautilus/Trotter Centre (with 25+ special weight training machines), Cardio Centre (featuring stairmasters, lifecycle, ellipticals, treadmills, concept II rowers, recumbent cycles and more) international squash courts and indoor/outdoor tennis courts.

Outside recreational areas include four tennis courts with lighting and beach volleyball. The Manager, Fitness and Recreation works with all groups in the college to establish the best programs possible to meet the needs and interests of Confederation College students. Detailed information regarding all recreation services at Confederation College is available in the Student Daytimer.

Parking Lot A, beside the Bubble, is reserved 24 hours a day, 7 days a week for community members of the Fitness Centre. All others, without the proper permit for that lot, will be ticketed.

Fitness Centre info: (807) 475-6398 Court Bookings: (807) 475-6239 or online at www.fitnesscentre.com

Health Centre

We are a team of medical professionals who are here to support the physical, emotional, and mental health needs of the College community. We provide student and staff access to medical services in order to promote active participation in personal health care. We endeavor to work collaboratively with other departments and agencies to promote the health of a diverse population. Appointments are recommended.

A full range of services are provided, including health assessments, counseling, first aid, physician clinics, massage therapy, birth control and family planning, and supervision for preexisting medical conditions.

Programs that have mandatory health requirements can find information on the Confederation College Health Centre website. Program coordinators will inform students regarding additional requirements.

Most medical services are covered by the Ontario Health Insurance Plan. Out of province students may be covered through their own provincial medical insurance. These insurance policies should be read carefully to determine coverage. International students are responsible for obtaining their own medical insurance and determining coverage. Information for international students is available by contacting Confederation College’s International Student Services at (807) 475-6467.

Full time students are enrolled in a health insurance plan. The plan includes prescription medication discounts or reimbursements. To receive these benefits, students must present their student card at a pharmacy at the time of purchase. Information on benefits and claims is available at the Health Centre and SUCCI office.

Location: Room 125, Fitness Centre
Hours: Mon – Fri 8:30 a.m. to 4:30 p.m.
Telephone: (807) 475-6169 Fax: (807) 622-2646
E-mail: health@confederationc.on.ca
Services for Students

Learning Centre

The Learning Centre's primary function is to enhance the academic success of all College students, including those with disabilities.

In addition to facilitating accommodations for students with documented disabilities the Learning Centre offers services for students experiencing academic difficulties.

Learning Centre staff can:

1. provide assistance and support for students with documented disabilities in the areas of:
   • academic, personal and career advisement of learning needs
   • assessment and recommendations for accommodations
   • learning strategies
   • information and resources on disabilities
   • assistive software and devices
2. improve study skills by offering tips on taking notes, reading textbooks, scheduling time, studying and doing well on tests
3. provide information on such topics as writing essays, preparing for and writing tests and exams, memorization techniques, writing multiple choice exams, etc.
4. arrange Peer Tutors for post-secondary College courses

All College students who have a strong desire to succeed are invited to visit:

The Learning Centre
Room 153 (1st Floor, Shuniah Building, Student Success Centre)
Monday - Friday, 8:30 am - 4:30 p.m.
Telephone: (807) 475-6618 Fax: (807) 475-0003
TDD Hearing Impaired (807) 475-6666
E-mail: howie@confederationc.on.ca

Library (Paterson Library Commons)

The Library Commons is the central hub of the learning process at Confederation College. Extensive collections of books, periodicals, videos, DVDs, music CDs, e-resources, computers and equipment, along with study areas, are available to the college community. Qualified staff can instruct and assist you in conducting research required for your studies. Interlibrary loan arrangements with other institutions supplement these services and resources.

Home page and Digital Library access 24/7:
www.confederationc.on.ca/library

Services include:

- 24/7 Web Access to Resources
- AV and Computer Equipment
- Computer workstations
- Copy, Fax and Transparency Services
- Individual and Group Study Areas; Study Rooms
- Information Literacy Instruction
- Information/Reference Services
- Interlibrary Loan
- Internet and Printing Services
- Live Chat Reference (askON)
- Microform Centre
- Online Catalogue
- Silent Study Room
- Research Instruction and Assistance
- Reserve Services

Special Collections:

- AV Software (films, videos, DVDs)
- e-Books & Journals
- Government Documents; University and College Calendars
- Music CDs and Talking Books
- Pamphlets and Popular Paperbacks
- Special Subject Collections include:
  Fetal Alcohol Spectrum, International Business, International Film, Learning Disabilities, Literacy and Women’s Studies…

Location: Rooms 145 and 227
(first and second floors, Shuniah Building)
Telephone: (807) 475-6219
Fax: (807) 622-3258

Hours:
Fall/Winter/Spring: (6 days per week) *
Monday-Thursday 8:00 a.m. to 9:00 p.m.
Friday 8:00 a.m. to 4:30 p.m.
Sunday 2:00 p.m. to 9:00 p.m.
* Closed: Saturdays and Statutory Holidays

Summer: (5 days per week)
Monday-Friday 8:30 a.m. to 4:30 p.m. **
** Closed: evenings, weekends and Statutory Holidays
In the language of the ANISHNABE people “Negahneewin” means “leading the way”. The establishment of Negahneewin College of Academic and Community Development is the culmination of many years of advocacy by the community-based Negahneewin Council to create a strong and collaborative partnership between Aboriginal and non-Aboriginal (Canadian) peoples. A college “within and throughout” Confederation College, Negahneewin College of Academic and Community Development is committed to providing an open door for all learners.

We provide an inclusive learning environment which practices respect and celebrates diversity. Programs and services we offer include: Academic Advising and Assessment; Academic Upgrading; Certificate Programs (College Access, Pre-Health Sciences); Diploma Programs (Aboriginal Law and Advocacy, General Arts and Science, Native Child and Family Services); General Education, Humanities and Social Sciences and Communications across the whole college; a Degree Program (Indigenous Leadership and Community Development); hundreds of full-time and part-time programs and courses through traditional classroom delivery, Virtual College via home computer, Distance Education, eLearning and Independent Study.

Qualified, learner focused faculty are committed to providing relevant and up to date curriculum. Experienced counselors and friendly staff are dedicated to providing support and excellence in customer service.

Our learners are provided opportunities to interact with the community through placements, internships and volunteer experiences in local agencies. Student leadership is encouraged and recognized through active participation on student associations and coordinating traditional and cross-cultural activities and events.

We invite community input through Negahneewin Council, program advisory committees, our alumni and meetings with community leaders. We engage with our communities through events such as career fairs, tours and conferences. We demonstrate a spirit of collaboration with our partners in education to provide support and quality learning that is accessible to all.

For more information, please contact:
Negahneewin College of Academic and Community Development
Confederation College
P.O. Box 398
Thunder Bay, ON P7C 4W1
Telephone: (807) 475-6465 Fax: (807) 475-4876
www.negahneewin.ca

Negahneewin College Support Services

Aboriginal Student Counsellor

An Aboriginal Student Counsellor is available to provide or make referrals for personal and grief counselling, academic counselling, liaison with First Nation Education Authorities regarding funding and sponsorship, career information and referrals to support agencies in the community if required.

For more information please contact:
Aboriginal Student Counsellor
Shuniah Building, Room 153F
Telephone: (807) 473-3708 Fax (807) 623-3956
Oshki Anishnawbeg Student Association (OASA)

History
- In 1987, the first Aboriginal student association was formed at Confederation College
- In 1992, it was renamed Oshki - Anishnawbeg Student Association
- “Oshki” is an Anishnawbeg (Ojibwe) word that means “new”
- The new name was picked by Richard Lyons, an Elder residing in Thunder Bay, Ontario.

Vision Statement
- To provide a supportive environment that facilitates Indigenous inclusion in post-secondary education
- To foster personal growth & further Aboriginal contributions to Canadian society.

Mission Statement
- Provides community based leadership
- Advocacy that effectively addresses the best interest of Indigenous, Canadian, & International learner

Values
- Provide an environment that is community-based, welcomes diversity, & encourages sharing of Indigenous intellectual & cultural traditions.
- Practice consensus & transparency in all decision making.
- Advocate in the best interest of learners.
- Promote student leadership, accountability, & learner success.
- Nurture existing relationships & develop partnerships within the college & the community.
- Work with learners, NCACD & Negahneewin Council, & Confederation College.

At OASA
- Plan & host events for the students
- Aboriginal teachings & culture
- Feasts
- Powwow
- Drum group
- Guest speakers
- Physical & mental health events
- Increase awareness about Aboriginal Culture
- Advocate for Indigenous, Canadian, & International learner(s)
- Facilitate a sense of community among all of the students at the college

For more information please contact:
OASA
PO Box 398, 1450 Nakina Drive
Thunder Bay, ON P7C 4W1
Located: 160 SUCCI Office, Shuniah Building
Phone: (807) 475-6314
Fax: (807) 473-6150
Email: oasa@confederationc.on.ca
Website: http://www.succi.com/oasa.php
SUCCI
(Student Union of Confederation College Inc)

SUCCI was established as an organization for the students of Confederation College. The Student Union of Confederation College is a student-focused organization committed to advocacy, entertainment, employment, education and student-friendly services to enhance the overall college experience. All full time postsecondary students pay a student activity fee which is administered by SUCCI. Annual elections for the Board of Directors are held in February.

Campus Employment Service
Campus Employment Service provides part time temporary employment positions on campus for students of Confederation College. Currently, our student employees work in many departments on campus including ACE and the Fitness Centre. Most employment positions are funded through the Ontario Work Study program. Students have available to them a large number of convenient job prospects that offer valuable job experience.

Campus Recreation
SUCCI is proud to highlight your FREE Campus Recreation program. It is believed that your education experience will be further enhanced by your involvement in Campus Recreation activities. Campus Recreation provides the opportunity to participate with friends and or classmates in many activities. Beach Volleyball, Flag Football, Squash, Ski & Tube Night, Basketball and Laser Tag are just a few of the varied activities available. Also offered are activities for the children of our students and include a Christmas party and family fun days. Visit the Campus Recreation Information Office in SUCCI and see why our motto is SOMETHING FOR EVERYONE. Great Times, Good Friends, Free Fun.

Health Plan
The Extended Health Plan is based upon the premise that full time post secondary students at Confederation College desire health coverage. SUCCI believes that this Health Plan provides affordable health insurance designed especially for students on fixed incomes. Benefit books are available at the SUCCI Office or available for download off the website. The health plan fee automatically applies to full time post secondary students registered at Confederation College. Those students covered under another plan may opt-out of the Plan.

Special Events & Programming
SUCCI provides a wide range of social events for all ages and interests on campus. Providing venues to meet, and socialize through special events like Frosh and Frost Week, Guest Speakers, and Large Scale Activities in all buildings on campus. We also host Thirsty Thursdays our on-campus all ages bi-weekly pub event featuring bands and entertainers and providing fundraising opportunities for classes and clubs. Got an idea? Come share it at the SUCCI Office.

Wellness & Diversity Programming
SUCCI’s Wellness & Diversity Office is committed to addressing, exploring, embracing and integrating diversity and wellness issues and topics that are of interest to the college community. Through guest speakers, hands-on and interactive activities, displays, discussion panels and fairs, and partnerships with community agencies we will educate and spark discussion about a wide range of topics; some commonplace and some controversial. We will work hard to present an unbiased dialogue on a wide variety of topics. It’s About Respect is also a collaborative program of SUCCI and Confederation College.

Varsity Athletics
SUCCI Varsity Athletics program has a rich history of success and competes in the Ontario Colleges Athletic Association. For up to date information on what sports are offered and schedules, please refer to the SUCCI daytimer, website or contact the Campus Recreation Office located in SUCCI.

Bursaries & Scholarships
SUCCI provides many students with undergraduate awards. Be sure to apply in late fall!

Clubs
SUCCI encourages school spirit through club activities. Funds are available for groups of students wishing to form and participate in clubs on campus. Clubs on campus enhance student life by providing recreation, sport, fitness, cultural, social, educational and spiritual opportunities.

Fitness Centre
All full time Confederation College students are gold members of the Fitness Centre.

OPUS – Student Newspaper
OPUS is the bi-weekly student newspaper sponsored by SUCCI. It offers information about important issues that affect the student body, upcoming events & activities.

Other Services
In addition to the services above, SUCCI offers a student daytimer, class and club banking service, Ombuds Office, student food bank, and much more. Board members sit on college committees to provide student feedback and advocate for the best interest of the student body.

SUCCI is located on the first floor off the Student Lounge in the Shuniah Building.

Telephone: (807) 475-6226 Fax: (807) 473-5160
Website: www.SUCCI.com
The Gift of Giving

Your commitment "changes lives through learning" by supporting high quality education for all learners throughout northwestern Ontario. With your support, we will build on past achievements on the College’s path to excellence by continually developing new resources. Gifts to education make our College, our communities, and northwestern Ontario a better place to live and learn — a vibrant and flourishing home for future generations.

Claim Your Charitable Donation Tax Credit

Our students benefit from all levels of giving. As a registered charity, tax receipts will be issued in accordance with the Income Tax Act. A donor can be an individual or a corporation. An individual can claim a tax credit for the eligible amount of gifts and a corporation can deduct the eligible amount of gifts from its taxable income.

Your donations begin to work immediately and gifts of any size will make an impact over time!

Donations are used for the current capital campaign, or may be directed at your choice as a:

- A one-time financial gift:
- A pledge paid in increments that are convenient for you;
- Memorials in remembrance of a recently departed loved one or friend;
- Gifts of equipment and other in-kind giving;
- Matching Gift Potential: some employers match the amount of their employee donations for a given period (ask us for more information).

Several payment options include: Cash / Cheque / Visa / MasterCard / Debit (Electronic Fund Transfer).

FUTURE Gifts—endow your contribution through a personal legacy!

Bequests can be made from a broad range of options that can lower your Estate taxes, yet stay within your control. A financial investment professional, accountant or lawyer can explain the details of future gifts, such as:

- Assets of life insurance, mutual funds, securities, retirement plans, property;
- Will bequests of a specific amount, percentage, or residual of an Estate.

Make Your Pledge to Education today!

Our students benefit from all levels of giving. Supporting higher education has never been easier. We invite you to visit our new Online Giving option on our website at: www.confederationc.on.ca/foundation.
Thank you for your support!

Donor Recognition:

The impact of your donation has positive, longstanding effects in northwestern Ontario and every gift to the Confederation College Foundation is important. We are honoured by the many supporters who share our vision of excellence as we change lives through learning.

Saying ‘Thank You’ to our supporters is important to us and gifts from individuals, groups, businesses, government, community partners and foundations are honoured in a variety of ways. Our prominently displayed Donor Recognition Wall allows us to celebrate gifts of $500 and up and publicly demonstrates our gratitude for your generosity.

ALLIANCE OF EXCELLENCE

Donor Recognition Levels

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Honour Roll</td>
<td>$1,000,000 +</td>
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<tr>
<td>Circle of Excellence</td>
<td>$500,000 - $999,999</td>
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<tr>
<td>Governors’ Council</td>
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<tr>
<td>President’s Circle</td>
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<td>President’s Council</td>
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<td>Vice Presidents’ Circle</td>
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<td>Vice Presidents’ Council</td>
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<td>Deans’ Council</td>
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<td>Leaders</td>
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<td>Advocates</td>
<td>$2,500 - $4,999</td>
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<td>Fellows</td>
<td>$1,000 - $2,499</td>
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<tr>
<td>Friends</td>
<td>$500 - $999</td>
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</table>

Donations support Confederation College’s commitment to high quality education for every student!

Confederation College Foundation Charitable Registration # 84252 0678 RR0001

www.confederationcollege.ca/foundation
In Memoriam

We wish to thank those who honour friends and family no longer with us with their support of the following memorials:

Blair Haggarty Aitkens  
Archie Allan  
William Aller  
Horst Andresson  
John Andrews  
Joanne Asling-Melnyk  
William T. Atwood  
Grant Babion  
Mae Batho  
Paul Behman  
Ruth W. Black  
M. Bodnarchuk  
Corinne Boote  
Kurt Bopp  
D.A.R. Bradshaw  
James (Ted) Broughton  
Iva Brunetti  
Richard Earl Buckley  
John E. Bygate  
Joe “Guiseppe” Cianfagna  
William J. Campbell  
Wendell Vincent Cathers  
Chuck & Muriel Carter  
Mary Chorney  
Donald A. Clark  
Michael Cressey  
William Crocker  
Dimitri Damianakos  
Patrick Desbiens  
Barry Dunn  
Jack Elwert  
Don Fairbarn  
Joseph B. Fero  
Keith Eugene Gamble  
Ron Allen Gibson  
Rebecca Gilbert  
Calen Grant  
Charles Grant  
Elisa Loyo Gutierrez  
Bill Halabisky  
Lois Hall  
Shannon L. Halvorsen  
David Sidney Hannaford  
Arthur J. Harris  
Carol Harris White  
Glen Harris  
Doug Holland  
Gordon Holt  
Sheila Huitsing  
Gerry Isherwood  
Bob Jarvis  
Muriel Jenkens  
Debbie Johnson  
Dr. Charles M. Johnston  
Jane & Tedd Judd  
E. Helen Keelan  
Stan Kerr  
Josh J. Klukie  
Derek Koski  
Maurice Kytor  
Aileen Lahti  
Aune Maria Lahti  
Eino Lassi  
J. Laurie  
Wendy Lou MacDonald  
(R McMuldroch)  
Ryszard V. Maciejewski  
Kathleen Maclvor  
Cody Maki  
Arleen Manahan  
Kelly McCracken  
Michael McFayden  
Rev. Stan & Margaret McLeod  
DeeDee Merritt  
R. L. Moffat  
Margaret Moloney  
Elizabeth Mary Moore  
Mary Murray  
Olive Murray  
Michael Muzyka  
Barbara Nawagesic  
Trevor Nicholl  
Trevor Northcott  
Catherine Paterson  
Erik Perth  
Hannah Peuramaki  
Fred Poultier Sr.  
C.D. Petrick  
Len Price  
Ellen Ranta  
Peter Rebernik Jr.  
Carol Ritchie  
Lorrie Rowson  
Brian James Russell  
Joseph St.Amand  
B. Sanderson  
Lorne E. Saxberg  
Wayne A. Shymko  
John Sopko  
Ed Stachow  
J. B. Sullivan  
Joan Symons  
Ken Taylor  
Barbara Thienpont  
Tiffani Tuomisto  
Raymond Van Amelsfoort  
Bradley & Susan Ward  
Ken Ward  
Michael Ward  
R. J. Ward  
Steve Ward  
Bernice Welden  
W. J. Weiler  
Arthur Widnall  
Charles W. Wilson  
Lou Woit  
Anthony Wolf  
Duncan Wood  
Piirto Yrjo

To honour a friend or family member with an In Memoriam donation, please contact:
CONFEDERATION COLLEGE FOUNDATION (807) 475-6460; TOLL FREE 1-888-845-7735
EMAIL: foundation@confederationc.on.ca

In Memoriam gifts can also be made through our secure
Online Giving option on our website: www.confederationc.on.ca/foundation.
The 2008 Graduate Employment Report reflects an overall graduate employment rate of 92%. The overall employment rate combined with a constant related to studies employment rate, is an indication of employers’ desire to hire well trained, skilled employees who are capable of making an immediate contribution in the workplace. We invite you to review our report and to contact the Career Services department should you have questions.

Visit us at Confederation College in Room 144 (The Link, Shuniah Building) Monday to Friday 8:30am to 4:30 pm or telephone (807) 475-6193. We can also be reached by email: career@confederationc.on.ca

Summary of 2008 employment report:
- 92% of graduates available for employment found employment within 6 months of graduation.
- 74% of graduates found employment in positions related to their studies.
- 18% of graduates are employed in positions not related to their studies.
- 16% of graduates responding to the survey are continuing their education.

<table>
<thead>
<tr>
<th>Program</th>
<th>Program Length</th>
<th>No. of Graduates</th>
<th>Available for Employment</th>
<th>Related Full Time</th>
<th>Related Part Time</th>
<th>Non Related</th>
<th>Actively Seeking</th>
<th>Average Salary</th>
<th>Further Education</th>
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<td><strong>Applied Arts</strong></td>
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<td>25</td>
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<td>1</td>
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### Notes:
- All information in this report was collected directly from graduates by an independent organization using a standardized provincial survey.
- Full-time employment is considered to be 30 hours per week or more.
- Salary information is from graduates working on a full time basis in related employment. Salaries are not shown unless 3 or more were reported.
General Arts and Science
1-year, Ontario College Certificate Program (0141)

The General Arts and Science Certificate program is designed to accommodate a wide range of individual educational goals. For example, many of our students are seeking ways to prepare for and gain transferable skills and credits for their post-secondary education at either college or university. Some of our students want to develop or enhance their employment skills so they can be ready to achieve success in the workplace. Still, others are on a voyage of personal and career improvement. Our graduates can be confident that they possess the essential knowledge, skills and attitudes needed for academic, career and personal advancement.

Program outcomes
Successful graduates of the General Arts and Science Certificate program will be able to:
• communicate clearly, concisely and correctly in written and spoken English
• demonstrate an understanding of the fundamental concepts in one or more of the following: human health, science, the social sciences, the arts, civics, the humanities, technology and/or in business and the economy
• apply basic research methods
• analyze social dynamics including social diversity, trends and problems
• think critically, problem solve and make effective, ethical decisions
• apply effective strategies for personal, academic and career improvement

The General Arts & Science program is a good choice to change your life
Successful graduates of the General Arts and Science Certificate program will possess the following:
• communications skills
• numeracy skills
• critical thinking and problem solving skills
• information management skills
• interpersonal skills
• personal skills

The General Arts & Science program builds skills for personal and academic improvement
Successful graduates of the General Arts and Science Certificate program will:
• be ready to apply their essential employability skill-sets in a wide range of employment settings
• have gained a standard of general education and essential skills, knowledge and attitudes that permits entrance into a wide range of college or university programs

The General Arts & Science program is a new beginning for a better future
With your General Arts and Science Certificate, you are qualified:
• to enter a variety of other Confederation College programs
• to enter Confederation College Ontario College Graduate Certificate Programs (formally called post-diploma programs)
• to apply for university degree course credit
• to seek employment opportunities that require an enhanced level of essential employability skills, knowledge and attitudes

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance

Courses Required:
Grade 12 College or University preparation English

Admission Requirements
Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to General Arts and Science Program.

Selection Criteria
For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

Communications Requirements
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040-College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117-Communication Strategies or CS007-Persuasive Writing.
### First semester

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<td>AS 110 Managing Media in the Information Age</td>
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</tbody>
</table>

Students must have a minimum average of 18 hours per week per semester or 540 credit hours and a GPA of 2.0 to receive the certificate.

**Opportunity for those with previous Postsecondary Courses:**

If you already have postsecondary-level courses from a recognized college or university, you may already have a substantial amount of credit toward a General Arts and Science Certificate—you may only need to complete the required courses to qualify (refer to the Confederation College Calendar for the policy on Transfer Credits and obtaining a Second Certificate).

**For students who want to be well prepared for college we recommend they enrol in the following courses:**

- GE 113 Making the Grade
- MC110 Microcomputer Applications I
- HS 118 Windows for Service Professionals or
- MC150 Introductory Microcomputer Applications

**For students who want to prepare for postsecondary programs in the arts and humanities we recommend they enrol in some of the following courses:**

- Fine Arts courses (FA), Humanities courses (HU) and Music courses (MU)

**For students who want to be well prepared for university we recommend they enrol in one of the following advanced communications courses (pre-requisite: CS040 or CS007 or CS117):**

- CS217 Communications for Health Professionals
- CS219 Communications for Technology
- CS220 Business Communications

**“New” General Arts and Science Community Services Stream**

This one semester, specialized stream will be of interest to students who want to continue or prepare for further education in the community services sector. You will have the opportunity to explore career options in community services, focus your studies with a view to participate in a postsecondary program in this field and potentially fulfill the requirements for a certificate or diploma in General Arts and Science. Special recognition will be given to those students completing this program stream. You will be required to complete the following courses:

- CS040 or CS007 or CS117 Communications courses
- AS220 Wellness for Life
- AS287 Human Service Career Exploration and Readiness
- AS288 Interprofessional Collaboration
- AS289 Self-Reflective Practice and Therapeutic Rapport
- SY180 Exploring Human Diversity

**Visit the Confederation College website [www.confederationc.on.ca](http://www.confederationc.on.ca)**
General Arts and Science Diploma
2-year, Ontario College Diploma Program (0104)

The General Arts and Science Diploma program is designed to accommodate a wide range of individual educational goals. For example, many of our students are seeking ways to prepare for and gain transferable skills and credits for their post-secondary education at either college or university. Some of our students want to develop or enhance their employment skills so they can be ready to achieve success in the workplace. Still, others are on a voyage of personal and career improvement. Our graduates can be confident that they possess the essential knowledge, skills and attitudes needed for academic, career and personal success.

Program Outcomes
Successful graduates of the General Arts and Science Diploma program will be able to:
- communicate clearly, concisely and correctly in written and spoken English
- demonstrate an understanding of the fundamental concepts in one or more of the following: human health, science, the social sciences, the arts, civics, the humanities, technology and/or in business and the economy
- apply basic research methods
- analyze social dynamics including social diversity, trends and problems
- think critically, problem solve and make effective, ethical decisions
- apply effective strategies for personal, academic and career improvement

The General Arts & Science program is a good choice to change your life
Successful graduates of the General Arts and Science Diploma program will possess the following:
- communications skills
- numeracy skills
- critical thinking and problem solving skills
- information management skills
- interpersonal skills
- personal skills

The General Arts & Science program builds skills for personal and academic improvement
Successful graduates of the General Arts and Science Diploma program will:
- be ready to apply their essential employability skill-sets in a wide range of employment settings
- have gained a standard of general education and essential skills, knowledge and attitudes that permits entrance into a wide range of college or university programs

The General Arts & Science program is a new beginning for a better future
With your General Arts and Science Diploma, you are qualified:
- to enter a variety of other Confederation College programs
- to enter Confederation College Ontario College Graduate Certificate Programs (formally called post-diploma programs)
- to apply for university degree course credit
- to seek employment opportunities that require an enhanced level of essential employability skills, knowledge and attitudes

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance Courses Required:
   Grade 12 College or University preparation English

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to General Arts and Science Program.

Selection Criteria
For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

Communications Requirements
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040-College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117-Communications Strategies or CS007 Persuasive Writing.

Program Courses
These courses are subject to change. For more information, please contact the Office of Admissions & Registration.
First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040 College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>or CS 007 Persuasive Writing</td>
<td>3</td>
</tr>
<tr>
<td>AS 110 Managing Media in the Information Age</td>
<td>3</td>
</tr>
<tr>
<td>SY 180 Exploring Human Diversity</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective (2)</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15 or 16</strong></td>
</tr>
</tbody>
</table>

Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of the following Communications Courses:</td>
<td></td>
</tr>
<tr>
<td>CS 217 Communications for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>or CS 219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>or CS 220 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>AS 220 Wellness for Life</td>
<td>3</td>
</tr>
<tr>
<td>General Education Electives (3)</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 568 Career Readiness</td>
<td>3</td>
</tr>
<tr>
<td>MA 190 Math for Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>General Education Electives (3)</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 330 Effective Workplace Skills</td>
<td>3</td>
</tr>
<tr>
<td>General Education Electives (4)</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

To graduate from the General Arts & Science two year diploma program, the student must have a minimum of 900 credit hours and a GPA of 2.0.

Opportunity for those with a previous diploma or degree:

If you have a recognized college diploma or university degree, you may already have a substantial amount of credit toward a General Arts and Science diploma—you may only need to complete the required courses to qualify (refer to the Confederation College Calendar for the policy on obtaining a Second Diploma).
**Child and Youth Worker**

3-year, Ontario College Advanced Diploma Program (0132)

Probably the most challenging human services program, the Child and Youth Worker (CYW) program will give you the knowledge and skills to support children and youth who are experiencing emotional/social/behavioral difficulties. You will develop a positive belief system and higher levels of understanding about yourself and children/youth. You will develop advanced interpersonal skills and therapeutic interventions. Utilizing these skills will enable you to provide a positive therapeutic climate that is accepting, valuing, and empowering.

If you are open to being challenged to grow at an intrapersonal and interpersonal level, and have a high level of commitment and desire to work with youth, then this could be the ideal profession for you!

**Employment Opportunities**

Programs serving children, youth and their families continue to develop in Northwestern Ontario. Group Homes, Foster Home Networks, Schools, Youth Justice Programs, Community Outreach Programs, Addictions, Early Intervention and Prevention Programs, Alternative to Custody, Diversion Programs, Shelters, Home and Community Based Programs, Case Management and Adolescent Treatment Programs are among the many career opportunities available to Child and Youth Worker graduates in Northwestern Ontario. Child and Youth Work is an exciting, challenging and expanding field to work in.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

**And Courses Required:** Grade 12 College or University Preparation English. Applicants with a senior English courses at the Workplace or Basic Level should contact the college for testing to determine eligibility for admission.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

**Physical Demands**

Field placement and employment agencies require that students are physically able to perform an array of duties. These include physical restraints, driving, physical and recreational programming, lifting, reporting and recording.

**Other Requirements**

Prior to commencement of field placement the following is required:

1. Student Medical Form
2. Up-to-date Immunization including TB Skin Test
3. Standard First Aid and CPR
4. A valid Driver’s License may be required for certain placements.
5. A recent Criminal Reference Check must be processed no earlier than one month prior to your field placement beginning. This will require each first-year student to apply for their Criminal Reference Check within the first week of December. As part of this Criminal Reference Check, agencies also require students to complete a Child Welfare Prior Involvement Check and a Vulnerable Persons Check. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent agencies from providing you with a field placement experience, thus blocking your ability to complete program requirements. Outstanding charges, recent convictions and person-related crimes are of particular concern. For more information, contact the Program Coordinator.

**Program Continuation Criteria**

To proceed into a subsequent semester and to graduate, the student must have a minimum “C” grade in each semester course.

**Articulation Agreements**

Graduates from this program are eligible to access articulation agreements with the following universities:

Lakehead University
Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 220 Wellness for Life</td>
<td>3</td>
</tr>
<tr>
<td>CS 040 College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>CY 102 Introduction to CYW</td>
<td>3</td>
</tr>
<tr>
<td>CY 103 Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>CY 104 Family and Parenting</td>
<td>3</td>
</tr>
<tr>
<td>CY 113 Interpersonal Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>PY 063 Child Development</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

Second semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 205 CYW Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CY 206 Counselling Skills</td>
<td>3</td>
</tr>
<tr>
<td>CY 210 Field Placement I</td>
<td>32</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>38</strong></td>
</tr>
</tbody>
</table>

Field Placement 4 days/week

Third semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 310 Field Placement II</td>
<td>32</td>
</tr>
<tr>
<td>CY 402 Programming</td>
<td>3</td>
</tr>
<tr>
<td>CY 405 CYW Methodology II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>38</strong></td>
</tr>
</tbody>
</table>

Field Placement 4 days/week

Fourth semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 303 Families</td>
<td>3</td>
</tr>
<tr>
<td>CY 304 Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CY 306 Behaviour Disorders and Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>CY 307 Recording Skills</td>
<td>3</td>
</tr>
<tr>
<td>CY 308 Youth Interventions</td>
<td>3</td>
</tr>
<tr>
<td>CY 406 Behaviour Interventions</td>
<td>3</td>
</tr>
<tr>
<td>SY 066 Contemporary Community &amp; Family: The Aboriginal Context</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Fifth semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 505 CYW Methodology III</td>
<td>3</td>
</tr>
<tr>
<td>CY 510 Field Placement III</td>
<td>32</td>
</tr>
<tr>
<td>CY 601 Legislation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>38</strong></td>
</tr>
</tbody>
</table>

Field Placement 4 days/week

Sixth semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 302 Community Development</td>
<td>3</td>
</tr>
<tr>
<td>CY 600 Groups</td>
<td>3</td>
</tr>
<tr>
<td>CY 607 Addictions</td>
<td>3</td>
</tr>
<tr>
<td>CY 608 Professional Issues</td>
<td>3</td>
</tr>
<tr>
<td>CY 609 Family Violence</td>
<td>3</td>
</tr>
<tr>
<td>CY 610 Family Interventions</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Field Placement 4 days/week

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Developmental Services Worker

2-year, Ontario College Diploma Program (0139)

Please Note: This program is under renewal and subject to changes.

The Developmental Services Worker supports individuals who have a range of physical, mental or developmental abilities. The role of the graduate has expanded considerably in order to implement the concepts of inclusion to support individuals in the community. It is a challenging program which will provide great satisfaction to those committed to working with persons having a disability. Students can expect to do field placements with the five (5) major agencies in Thunder Bay, as well as with both Boards of Education.

Employment Opportunities

Graduates are eligible for employment in a variety of settings providing services for persons with a disability. Roles include paraprofessional specialists within educational services, employment support persons in vocational services, support workers in residential services and support for families. There are expanded opportunities as people with disabilities are further included into the mainstream of society.

The program has high employment statistics, with jobs available across Canada.

Career Categories include prospective positions such as Educational Assistant, Employment Support Specialist, Residential Support Worker, Advocate, Family Support Worker or Developmental Services.

Graduates are hired by the following agencies in Thunder Bay:

Avenue II, Option Northwest, Lakehead Association for Community Living, Brain Injury Services of Northwestern Ontario, Wesway, Lakehead Board of Education, Lakehead District Catholic School Board, HAGI. There are also many job opportunities outside of Thunder Bay. If you are willing to travel, your skills are recognized throughout Canada.

Post-Diploma Options

Ryerson University - A part-time program giving community college graduates the opportunity to complete a Bachelor of Applied Arts degree in Developmental Disabilities. Athabaska University - Bachelor of Arts in Human Services, Lakehead University - Social Work Program. Loyalist College - Human Services Management. Humber College - Post-Graduate Diploma - Behavioural Sciences Program. Confederation College - Autism and Behavioural Sciences Program.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels
2. or Successful Completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Course Required: Grade 12 College or University preparation English

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Physical Demands

The Developmental Services Worker student must possess the physical capability to lift and support clients.

Other Requirements

1. Student Medical Form

Prior to commencement of field placement the following is required:

1. Up-to-date Immunization including TB Skin Test
2. Standard First Aid and CPR Level C
3. A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent agencies from providing you with a field placement experience, thus blocking your ability to complete program requirements. Outstanding charges, recent convictions and person-related crimes are of particular concern. For more information, contact the Program Coordinator.

4. A valid Driver’s License

Program Continuation Criteria

To proceed into a subsequent semester and to graduate, the student must have a minimum “C” grade in each semester course.
Accelerated Program

1-Year, Ontario College Diploma Program (0162)

Each year a number of seats will be available to people with a university degree in a related field or a community college graduate with a diploma from a human/community service program. Students must apply to ontariocolleges.ca and must have a minimum GPA of 2.0 or “C” average. A transcript is required. The program is comprised of courses from the first and second year of the program. The duration is 2 semesters, from September to May.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

Lakehead University
Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>DS 127 Developmental Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>DS 129 Facilitative Techniques</td>
<td>3</td>
</tr>
<tr>
<td>DS131 Interpersonal Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>DS 133 Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PY 063 Child Development</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
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</table>

Second semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 232 Field Placement I</td>
<td>21</td>
</tr>
<tr>
<td>DS 234 Introduction to Applied</td>
<td></td>
</tr>
<tr>
<td>Behavioural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>DS 236 Developmental Disabilities II</td>
<td>3</td>
</tr>
<tr>
<td>DS 238 School Based Support Strategies</td>
<td>3</td>
</tr>
<tr>
<td>SY 066 Contemporary Community &amp; Family: The Aboriginal Context</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

Third semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 223 Communications for Community Services</td>
<td>3</td>
</tr>
<tr>
<td>DS 341 Health and Wellness for DSW</td>
<td>3</td>
</tr>
<tr>
<td>DS 343 Behavioural Support Strategies</td>
<td>3</td>
</tr>
<tr>
<td>DS 345 Dual Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>DS 347 Community Based Support Strategies</td>
<td>3</td>
</tr>
<tr>
<td>DS 349 Augmentative Communication and Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
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</tbody>
</table>

Fourth semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 452 Field Placement II</td>
<td>24</td>
</tr>
<tr>
<td>DS 454 Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>DS 456 Counselling Skills</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The field of Early Childhood Education is experiencing significant growth and diversification. A career in Early Childhood Education offers a challenging and dynamic opportunity to specialize in the education, care and support of children and families.

The program will include studies in child development, curriculum planning, and theory of Early Childhood Education. The student will participate in field practicum placements in a variety of Early Childhood settings.

Employment Opportunities

Graduates are employed in daycare centres, nursery schools, family resource programs, private home daycare programs, inclusive childcare programs, child development programs and hospital playrooms. Early Childhood Education graduates are also hired as special needs support partners, childcare workers in community development projects, Teacher assistants and as play facilitators in crisis homes and respite care programs.

In order to be employed in a licensed childhood setting, graduates with an ECE Diploma must register with the College of Early Childhood Educators.

Career Categories include prospective positions such as Early Childhood Educator, Day Care Worker, Nursery School Worker, Family Resource Center Coordinator, Early Childhood Education JK/SK, Assistant or Special Needs Support Worker.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University Preparation English. Applicants with a senior English and courses at the Workplace or Basic Level should contact the college for testing to determine eligibility for admission.

It is strongly recommended that students applying to this program have good communication skills and volunteer experience in an early childhood setting.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Physical Demands

The Early Childhood Education student must possess physical capabilities which would facilitate the lifting and supporting of children.

Energy and stamina are required to respond to the high physical demands associated with the role of an educator. The student must react promptly and competently in response to matters of safety.

Other Requirements

1. Student Medical Form

Prior to commencement of the first semester field placement the following is required:
1. Up-to-date Immunization including TB Skin Test
2. Standard First Aid, Infant/Child CPR Certificate - Level C
3. A recent Criminal Reference with check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant.

NOTE: A Criminal Reference Check can take 4-12 weeks to process. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent agencies from providing you with a field placement experience, thus blocking your ability to complete program requirements. Outstanding charges, recent convictions and person-related crimes are of particular concern. For more information, contact the Program Coordinator.

Program Continuation Criteria

To proceed into a subsequent semester and to graduate, the student must have a minimum “C” grade in each course prefixed with “ED”.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:
Lakehead University
Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
### First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>ED 125 Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ED 127 Health, Safety and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ED 129 Infant/Toddler Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>HS 118 Windows for Service Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SY 066 Contemporary Community &amp; Family:</td>
<td></td>
</tr>
<tr>
<td>The Aboriginal Context</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>CS 223 Communications for Community Services</td>
<td>3</td>
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<tr>
<td>ED 234 Field Placement I</td>
<td>7</td>
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<tr>
<td>ED 236 Field Placement Seminar</td>
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<tr>
<td>ED 238 Curriculum Planning II</td>
<td>4</td>
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<tr>
<td>ED 240 Development of Infants/Toddlers &amp; Observation</td>
<td>4</td>
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<td>ED 242 Effective Interpersonal Communication</td>
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### Third semester

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<tr>
<td>ED 343 Guidance</td>
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<tr>
<td>ED 345 Preschool/School-Age Development &amp; Observation</td>
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<tr>
<td>ED 347 Field Placement II</td>
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<tr>
<td>ED 349 Field Placement Seminar</td>
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<td>ED 351 Curriculum Planning III</td>
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<tr>
<td>ED 452 Field Placement III</td>
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<tr>
<td>ED 454 Advanced Teaching Methods</td>
<td>3</td>
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<tr>
<td>ED 456 Inclusive Practice</td>
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<tr>
<td>ED 458 Field Placement Seminar</td>
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<tr>
<td>ED 460 Policy, Legislation and Advocacy</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Educational Assistant
2-year, Ontario College Diploma Program (0156)

The Educational Assistant Program will prepare individuals to work in an ethical and professional manner as members of a multi-disciplinary team in a variety of educational settings. Students in this program will learn the strategies and techniques for implementing the education plan (IEP) and for assisting children with personal care and life skills. They will gain knowledge and skills in using specialized equipment. Students will learn how to create safe learning environments for children with diverse abilities and backgrounds who experience cognitive, physical, social/emotional and/or behavioural difficulties. Practical experience through two field placements allows the student to apply the theory and knowledge learned in the classroom.

Employment Opportunities
Graduates find employment in elementary and secondary schools as well as with social services and community agencies. Career Categories include prospective positions such as Educational Assistant, Special Education Assistant, Special Education Support Personnel, Communication Assistant, Library Assistant or Support Service Worker.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University preparation English.

Selection Criteria
Candidates must have strong interpersonal skills as well as excellent communication skills. Strong math skills are required.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Physical Demands
The Educational Assistant student must have the energy and stamina to respond to the physical and emotional demands associated with the role of the assistant.

Other Requirements
1. Personal computer with Internet access.
2. Student Medical Form

Prior to commencement of field placement the following is required:
1. Up-to-date Immunization including Two-step TB Skin Test
2. Standard First Aid and CPR
3. A current Criminal Reference Check (CRC) completed by Ontario Education Screening Corporation (OESC) (local CRC not acceptable). It is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus blocking you from completing program requirements. All costs associated with the CRC, testing and proof of immunization certification are the responsibility of the applicant.

Program Continuation Criteria
Students are required to achieve a minimum of a “C” grade in all communication, computer, and core courses in order to proceed to the next semester. Many of the courses have co-requisites and pre-requisites. Students must complete all requirements for the first three semesters to be eligible for the final placement.
### First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HS 118 Windows for Service Professionals</td>
<td>3</td>
</tr>
<tr>
<td>TE 201 Fundamentals of Educational Assisting</td>
<td>3</td>
</tr>
<tr>
<td>TE 107 Educational Programming I: Introduction</td>
<td>3</td>
</tr>
<tr>
<td>TE 110 Child Development: The Early Years</td>
<td>3</td>
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<td>General Education Elective</td>
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### Second semester

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<tbody>
<tr>
<td>CS 220 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>TE 206 Field Placement (1 day/week)</td>
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</tr>
<tr>
<td>TE 216 Child Development II: The School Years</td>
<td>3</td>
</tr>
<tr>
<td>TE 217 Exceptionalities I: Special Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 218 Educational Programming II: Instructional Methods</td>
<td>3</td>
</tr>
<tr>
<td>TE 221 Observation and Recordkeeping</td>
<td>3</td>
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<tr>
<td>TE 222 Educational Technology and Research</td>
<td>3</td>
</tr>
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<td>TE 223 Field Placement Seminar 1</td>
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### Third semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TE 313 Basic Pharmacology &amp; Personal Care</td>
<td>3</td>
</tr>
<tr>
<td>TE 314 Behaviour and Cognitive Interventions</td>
<td>3</td>
</tr>
<tr>
<td>TE 315 Exceptionalities II</td>
<td>3</td>
</tr>
<tr>
<td>TE 316 Educational Programming III: Math and Language</td>
<td>3</td>
</tr>
<tr>
<td>TE 317 Child Abuse and Crisis Intervention</td>
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<td><strong>Total</strong></td>
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### Fourth semester

<table>
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<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>TE 405 Field Placement Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>TE 414 Field Placement II (4 days a week)</td>
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<td>General Education Elective</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
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</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Recreation and Leisure Services

2-year, Ontario College Diploma Program (0106)
Please Note: This program is under renewal and subject to changes.

Enrich people’s lives through recreation. Graduates of the Recreation and Leisure Services Program help people add zest, energy and satisfaction to their lives. Students will discover how their personal skills and strengths match the variety of opportunities for work in this satisfying career. From managing a community centre to planning for leisure with older adults, the recreation and leisure services field offers employment opportunities that make an impact on the quality of life in our communities.

Employment Opportunities

Careers in recreation offer challenge and personal satisfaction in an increasing number of job opportunities. Graduates may find employment in a variety of settings such as:

- Municipal Recreation Departments
- Correctional Centres
- Boys and Girls Clubs
- YM-YWCAs
- Commercial Recreation and Tourism Agencies
- Government Agencies
- Community Schools
- Industrial Recreation
- Older Adult Centres
- Outdoor Education Centres
- Fitness Centres/Facilities
- Sporting Goods Stores
- Community Non-Profit Agencies
- Therapeutic Recreation Settings

Related Programs

If a career in recreation and leisure interests you, you might also want to consider the following related program(s):
Recreation Therapy.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or Successful Completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Two Diplomas in Five Semesters - Enhanced Options

Graduates of the Recreation and Leisure Services Program can graduate with a Recreation Therapy Diploma in one semester.

Advanced Standing Accelerated Options

Graduates of college or university programs in human services can complete the Recreation and Leisure Services Program in two semesters.

Other Requirements

1. Student Medical Form

Prior to commencement of field placement the following is required:
1. Up-to-date Immunization including TB Skin Test
2. Standard First Aid, Infant/Child CPR Certificate
3. A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. It is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus blocking you from completing program requirements. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant.

Accelerated Program

1-Year, Ontario College Diploma Program (0163).

Each year a number of seats will be available to people with a university degree in a related field or a community college graduate with a diploma from a human/community service program. Students must apply to ontariocolleges.ca and must have a minimum GPA of 2.0 or “C” average. A transcript is required. The program is comprised of courses from the first and second year of the program. The duration is 2 semesters, from September to May.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

Athabasca University
Griffith University, Queensland, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
# Recreation and Leisure Services

## First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* Communication Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td>PY 299 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>RL 122 Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>RL 123 Interpersonal and Group Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>RL 125 Program and Event Planning I</td>
<td>3</td>
</tr>
<tr>
<td>RL 126 Administrative Practices I</td>
<td>3</td>
</tr>
<tr>
<td>RL 130 Activity Leadership I</td>
<td>3</td>
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<td><strong>Total</strong></td>
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## Second semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>RL 225 Therapeutic Recreation I</td>
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</tr>
<tr>
<td>RL 228 Marketing and Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>RL 229 Activity Leadership II</td>
<td>3</td>
</tr>
<tr>
<td>RL 231 Program and Event Planning II</td>
<td>3</td>
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<tr>
<td>RL 232 Field Placement</td>
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<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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## Third semester

<table>
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<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>CS 223 Communication for Community Services</td>
<td>3</td>
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<tr>
<td>RL 324 Activity Leadership III</td>
<td>3</td>
</tr>
<tr>
<td>RL 325 Therapeutic Recreation II</td>
<td>3</td>
</tr>
<tr>
<td>RL 338 Facility Management</td>
<td>3</td>
</tr>
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<td>RL 339 Administrative Practices II</td>
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<td>RL 343 Outdoor and Environmental Studies</td>
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## Fourth semester

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<tr>
<th>Course Number / Title</th>
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<tr>
<td>RL 428 Internship for Recreation &amp; Leadership</td>
<td>27</td>
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</table>

Students who graduate from the Recreation and Leisure Services Program or the Recreation Therapy Program can complete the second diploma in one semester.

*Communication Pathways*

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Recreation Therapy Program
2-year, Ontario College Diploma Program (0108)

The Recreation Therapy Program prepares graduates to plan, implement and evaluate a wide range of leisure services for children, adolescents and adults who experience a barrier to a healthy leisure lifestyle. Students will learn how to work with individuals and groups to assess their needs and interests in order to facilitate meaningful recreation and leisure experiences with and for them. This aids in achieving independent and personally fulfilling leisure lifestyles.

Employment Opportunities

- Hospitals
- Homes for Aged/ Retirement Homes
- Supportive Housing Complexes
- Correctional Centres
- Rehabilitation/Treatment Centres
- Government Agencies
- Older Adult Centres
- Community Non-Profit Agencies
- Integrative Service Agencies

Advanced Standing Accelerated Program Options

Graduates of college or university programs in human services can complete a diploma in the Recreation Therapy Program in two semesters.

Two Diplomas in Five Semesters - Enhanced Options

Graduates of the Recreation Therapy Diploma Program can graduate with a Recreation and Leisure Services Program Diploma in one semester.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or Successful Completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Other Requirements

1. Student Medical Form

Prior to commencement or field placement the following is required:

a) Up-to-date immunization including TB Skin Test
b) Standard Fist Aid/Infant/Child/CPR Certification
c) A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. It is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in some field placement experiences, thus blocking you from completing program requirements. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant.

Accelerated Program

1-Year, Ontario College Diploma Program (0163).

Each year a number of seats will be available to people with a university degree in a related field or a community college graduate with a diploma from a human/community service program. Students must apply to ontiacincolleges.ca and must have a minimum GPA of 2.0 or “C” average. A transcript is required. The program is comprised of courses from the first and second year of the program. The duration is 2 semesters, from September to May.
# Recreation Therapy Program

## First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 040* Communication Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td>PY 299 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>RL 122 Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>RL 123 Interpersonal and Group Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>RL 125 Program and Event Planning I</td>
<td>3</td>
</tr>
<tr>
<td>RL 126 Administrative Practices I</td>
<td>3</td>
</tr>
<tr>
<td>RL 130 Activity Leadership I</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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## Second semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>RL 225 Therapeutic Recreation I</td>
<td>3</td>
</tr>
<tr>
<td>RL 228 Marketing and Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>RL 229 Activity Leadership II</td>
<td>3</td>
</tr>
<tr>
<td>RL 231 Program and Event Planning III</td>
<td>3</td>
</tr>
<tr>
<td>RL 232 Field Placement</td>
<td>14</td>
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<td>General Education Elective</td>
<td>3</td>
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<td><strong>Total</strong></td>
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## Third semester

<table>
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<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CS 223 Communications for Community Services</td>
<td>3</td>
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<tr>
<td>RL 325 Therapeutic Recreation II</td>
<td>3</td>
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<tr>
<td>RL 339 Administrative Practices II</td>
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<tr>
<td>RT 336 Therapeutic Recreation Processes</td>
<td>3</td>
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<tr>
<td>RT 337 Facilitative Techniques</td>
<td>3</td>
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<tr>
<td>RT 340 Adaptive Technology and Pharmacology</td>
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<td>General Education Elective</td>
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<tr>
<td><strong>Total</strong></td>
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## Fourth semester

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<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RT 436 Internship for Recreation Therapy</td>
<td>27</td>
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</table>

Students who graduate from the Recreation and Leisure Services Program or the Recreation Therapy Program can complete the second diploma in one semester.

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Social Service Worker

2-year, Ontario College Diploma Program (0107)

The two-year Social Service Worker Program focuses on a generalist approach to social service education as an introduction to the field of social work. We offer a large field placement component in a variety of agencies where students gain experience working with all population groups - from young children to senior citizens. Upon graduation students are ready to work as a professional in the community. It is strongly recommended applicants have previous volunteer experience in community service.

Note: Graduates are eligible for membership in the Ontario College of Social Workers and Social Service Workers.

Employment Opportunities

A graduate of the program may expect employment with public welfare agencies at various levels of government, as well as with private agencies in the fields of child and family services, substance abuse, mental health, community development, domestic violence and many others.

Career Categories can include prospective positions such as Social Service Worker (only members of the Ontario College of Social Workers and Social Service Workers may use this title), Outreach Worker, Case Manager, Intake Worker, Support Worker, Facilitator, Family Worker or Program Coordinator.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University preparation English.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Other Requirements

1. Student Medical Form

Prior to commencement of field placement the following is required:
1. Up-to-date Immunization including TB Skin Test
2. Standard First Aid, Infant/Child CPR Certificate

3. A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus preventing you from completing program requirements. Some agencies also require students to complete a Child Welfare Prior Involvement Check and a Vulnerable Persons Check.

NOTE: A significant number of field placement agencies require students to be at least 19 years of age in order to offer full professional responsibilities. Those under age 19 could have their field placement options limited.

Program Continuation Criteria

To proceed into a subsequent semester and to graduate, the student must have a minimum “C” grade in each semester course.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

Lakehead University
Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

Accelerated Program

1-year, Ontario College Diploma Program (0154)

Each year, a limited number of seats will be available to people with a university degree in Psychology, Sociology, Women’s Studies, Gerontology or equivalent, or a community college graduate with a diploma from a human service program. Students with other degrees and diplomas who also have relevant employment experience may be considered. Students must apply to ontariocolleges.ca and are required to have a minimum GPA of 3.0 or “B” average and provide a transcript in order to enter the program.

NOTE: A current Criminal Reference check and First Aid and CPR are required for entry into this program.
Students must take SS116 Social Welfare I as a pre-entry requirement and achieve a “C” grade in order to proceed to the fall semester. Transfer credits are available for any student who has equivalent credits from another postsecondary institution for any of the course requirements in the program except field placement. Assessments are also available through Prior Learning Assessment and Recognition at the cost approximately $100.00 per course. For more information, contact the Program Coordinator.

Students must achieve a “C” grade or better in all courses in order to continue in the program and graduate.

The program is comprised of courses from first and second year of the program. The duration is 2 semesters from September to May. See the list of courses under Program Courses.

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HN 200 Families and Parenting</td>
<td>3</td>
</tr>
<tr>
<td>HS 118 Windows for Service Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PY 299 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SS 115 Interpersonal Effectiveness I</td>
<td>3</td>
</tr>
<tr>
<td>SS 116 Social Welfare I</td>
<td>3</td>
</tr>
<tr>
<td>SS 121 Family Violence</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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**Second semester**

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tr>
<td>SS 214 Community Development</td>
<td>3</td>
</tr>
<tr>
<td>SS 215 Interpersonal Effectiveness II</td>
<td>3</td>
</tr>
<tr>
<td>SS 216 Social Welfare II</td>
<td>3</td>
</tr>
<tr>
<td>SS 217 Practice Techniques</td>
<td>3</td>
</tr>
<tr>
<td>SS 223 Addictions</td>
<td>3</td>
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<tr>
<td>SS 250 Field Placement Preparation</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
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**Third semester**

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PY 399 Abnormal Psychology</td>
<td>3</td>
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<tr>
<td>SS 200 Social Services Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SS 320 Social Services Methods I</td>
<td>3</td>
</tr>
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<td>SS 350 Field Placement I</td>
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**Fourth semester**

<table>
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<th>Course Number / Title</th>
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<tbody>
<tr>
<td>SS 300 Social Services Seminar II</td>
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</tr>
<tr>
<td>SS 420 Social Services Methods II</td>
<td>3</td>
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<tr>
<td>SS 451 Field Placement II</td>
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</table>

Field Placement – 4 days/week

1-Year Accelerated Diploma Program (0154)

**First semester**

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SS 115 Interpersonal Effectiveness I</td>
<td>3</td>
</tr>
<tr>
<td>SS 121 Family Violence</td>
<td>3</td>
</tr>
<tr>
<td>SS 200 Social Services Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SS 320 Social Services Methods I</td>
<td>3</td>
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<td>SS 350 Field Placement I</td>
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<td><strong>Total</strong></td>
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Field Placement - 4 days/week

**Second semester**

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS 300 Social Services Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>SS 420 Social Services Methods II</td>
<td>3</td>
</tr>
<tr>
<td>SS 451 Field Placement II (28 Hours per week)</td>
<td>28</td>
</tr>
<tr>
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</table>

Field Placement - 4 days/week

Please note that two additional courses are required prior to entrance in the fall semester of the Accelerated Program: SS 116 Social Welfare I and SS 223 Addictions.

Students can take the Ontario Learns course OL 253 Community and Social Services as equivalent to SS 116 Social Welfare I. There is an online Addictions Course offered by the Centre for Addiction and Mental Health - Course begins in: Winter or Spring. Remember to register early as this course fills up quickly!

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Law and Security Administration

2-year, Ontario College Diploma Program (0114)
Please Note: This program is under renewal and subject to changes.

The program is designed to prepare the student for a career in a variety of security fields such as, border security, correctional services and security in the private sector.

• Borders guards play an important role in protecting the safety and security of Canada and Canadians as well as overseeing the flow of people and goods crossing Canadian border. An added enforcement role requires students to have a sound knowledge of Canadian legislation as it relates to the enhanced duties and responsibilities for border guards.

• Canadian corrections require knowledgeable and skilled individuals who understand the dual role of correctional officers. Students will gain the required skills to provide safe care and custody and understand and appreciate the rehabilitative philosophy of most institutions.

• Students will have an understanding of global issues as they directly impact Canada’s security. The rapid growth of technology requires trained individuals who can remain one step ahead of those who choose to use the technology for destructive purposes.

• Public concern surrounding community violence and personal safety have made private security a rapidly growing industry creating exciting opportunities for students interested in pursuing careers in private security.

In society today there are numerous challenges in the address of public and private security. With rapid change affecting political, social and economic stability it has become increasingly important that individuals and communities have access to trained law and security personnel.

An ability to adapt to the needs of communities promotes leadership skills, encourages excellent communication skills and demonstrates respect towards others. The inclusion of Aboriginal people in public service careers is identified as a critical step forward at this point in time.

Employment Opportunities

Graduates of the program have found a number of career opportunities open to them in Law Enforcement, Correctional Services, Canada Border Services and the Private Security sector. Whatever your choice may be, the Confederation College Law and Security Administration Program affords an excellent orientation in these fields.

Career Categories include prospective positions such as Correctional Services Officer, Canada Border Services Officer, University/College Security, Airport/Hospital, Nuclear Plant Security, Armoured Car Guard, Loss Prevention Officer, By-law Enforcement, Dispatcher - Police/ambulance, Restorative Justice Projects, Industrial or Corporate Security Officer, Conservation Officer, Military Police.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Other Requirements

Applicants are advised to check with their family doctor to ensure that participating in the rigorous physical education classes in this program would not present a health risk.

Students must produce a Criminal Records Check Certificate prior to the fall registration (before entering the first semester). Note: A criminal record does not necessarily prohibit attendance. The organizations that provide our program with fieldwork experiences require each student to have a criminal record check before they will accept students for field placement. A criminal record may restrict the opportunities for field placements and may prevent students from completing the program and/or securing employment. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant.
Accelerated Program

1-Year, Ontario College Diploma Program (0165)

Each year a number of seats will be available to people with a university degree in a related field or a community college graduate with a diploma from a human/community service program. Students must apply to OCAS and must have a minimum GPA of 2.0 or “C” average. A transcript is required. The program is comprised of courses from the first and second year of the program. The duration is 2 semesters, from September to May.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

- Lakehead University
- University of Ontario Institute of Technology
- Griffith University, Queensland, Australia
- Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 040*</td>
<td>College Writing Essentials</td>
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<tr>
<td>LS 125</td>
<td>Roles, Practices &amp; Interprofessionalism</td>
</tr>
<tr>
<td>LS 130</td>
<td>Introductory Management</td>
</tr>
<tr>
<td>PF 111</td>
<td>Canadian Justice Systems</td>
</tr>
<tr>
<td>PF 112</td>
<td>Interpersonal &amp; Strategic Communications</td>
</tr>
<tr>
<td>PF 117</td>
<td>Human Diversity/ Aboriginal People</td>
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Second semester

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<tr>
<td>LS 211</td>
<td>Career Preparation</td>
</tr>
<tr>
<td>LS 212</td>
<td>Field Experience I</td>
</tr>
<tr>
<td>PF 221</td>
<td>Provincial Statutes</td>
</tr>
<tr>
<td>PF 222</td>
<td>Criminal Code</td>
</tr>
<tr>
<td>PF 224</td>
<td>Communications II</td>
</tr>
<tr>
<td>PF 225</td>
<td>Government of Canada</td>
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<tr>
<td>General Education Elective</td>
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Third semester

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<tbody>
<tr>
<td>LS 312</td>
<td>Risk Management</td>
</tr>
<tr>
<td>LS 313</td>
<td>Defensive Tactics I</td>
</tr>
<tr>
<td>LS 314</td>
<td>Customs</td>
</tr>
<tr>
<td>LS 316</td>
<td>Mental Health &amp; Substance Abuse</td>
</tr>
<tr>
<td>PF 334</td>
<td>Evidence</td>
</tr>
<tr>
<td>PF 335</td>
<td>Youth in Conflict with the Law</td>
</tr>
<tr>
<td>PF 336</td>
<td>Principles of Ethical Reasoning</td>
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Fourth semester

<table>
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<tr>
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<tbody>
<tr>
<td>LS 411</td>
<td>Correctional Procedures</td>
</tr>
<tr>
<td>LS 412</td>
<td>Defensive Tactics II</td>
</tr>
<tr>
<td>LS 419</td>
<td>Field Experience II</td>
</tr>
<tr>
<td>LS 420</td>
<td>Immigration</td>
</tr>
<tr>
<td>LS 421</td>
<td>Emerging Trends</td>
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<tr>
<td>PF 445</td>
<td>Conflict Management</td>
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* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Police Foundations

2-year, Ontario College Diploma Program (0113)

Please Note: This program is currently under renewal.

The two-year Police Foundations Program provides students with the skills and knowledge to pursue entry-level policing positions. This pre-employment training is designed to give potential police candidates a broad education in the theory of human relations combined police-related academic and applied knowledge of the law; police powers; community policing; lifestyle management; and investigations.

The program responds to the need for graduates to have a broad focus on the Canadian Justice System. Successful completion of the program will have prepared graduates to compete within the Ontario Constable Selection System for employment in public law enforcement or other related careers.

Employment Opportunities

Opportunities abound! The policing profession is in the midst of unprecedented hiring with graduates being hired in Northwestern Ontario, as well as across Canada, at the municipal, provincial, and federal policing levels.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access Program; students who successfully complete the College Access Program will be eligible to apply to programs in Community Services.

Other Requirements

Criminal Records Check

Provide a Criminal Records Check prior to the Fall registration.

A criminal record does not prevent entry into the Police Foundations Program but it may restrict field placement and volunteer opportunities. A criminal record may prevent a student from completing the program and/or securing employment. Criminal Record Checks (dated within the last year) must be turned in to the Program Coordinator prior to the commencement of the Fall semester. All costs associated with Criminal Record Checks are the responsibility of the applicant.

Students must complete the Physical Activity Readiness Questionnaire (PAR-Q) and the Physical Activity Readiness Medical Examination (PARmed-X) if answering yes to one or more questions in the PAR-Q.

Applicants are advised to check with their family doctors to ensure that participating in the rigorous physical education classes would not present a health risk.

Applicants entering into this program are strongly encouraged to determine employment entrance criteria set by individual police services and ensure the fulfillment of those criteria. This includes vision and hearing requirements.

Program Continuation Criteria

From First to Second Semester:
Pass all first semester courses with a minimum cumulative Grade Point Average of 2.0.

From Second to Third Semester:
Pass all second semester courses with a minimum cumulative Grade Point Average of 2.25.

From Third to Fourth Semester:
Pass all third semester courses with a minimum cumulative Grade Point Average of 2.25.

To Graduate:
Pass all fourth semester courses with a minimum cumulative Grade Point Average of 2.25.

Accelerated Program

1-Year, Ontario College Diploma Program (0164)

Each year a number of seats will be available to people with a university degree in a related field or a community college graduate with a diploma from a human/community service program. Students must apply to ontariocolleges.ca and must have a minimum GPA of 2.0 or “C” average. A transcript is required. The program is comprised of courses from the first and second year of the program. The duration is 2 semesters, from September to May.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

- Lakehead University
- University of Ontario Institute of Technology
- Griffith University, Queensland, Australia
- Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
### First Semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS040* College Writing Essentials</td>
<td>4</td>
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<tr>
<td>MC 150 Introductory Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>PF 111 Canadian Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>PF 112 Interpersonal &amp; Strategic Communications</td>
<td>3</td>
</tr>
<tr>
<td>PF 117 Human Diversity/Aboriginal People</td>
<td>3</td>
</tr>
<tr>
<td>PF 118 Fitness and Lifestyle Management I</td>
<td>3</td>
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<tr>
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<td><strong>Total</strong></td>
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### Second Semester

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<tr>
<td>LS 211 Career Preparation</td>
<td>3</td>
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<td>PF 221 Provincial Statutes</td>
<td>3</td>
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<td>PF 222 Criminal Code</td>
<td>3</td>
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<tr>
<td>PF 224 Communications II</td>
<td>3</td>
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<tr>
<td>PF 225 Government of Canada</td>
<td>3</td>
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<td>PF 228 Fitness and Lifestyle Management II</td>
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<td>SY 125 Introduction to Sociology</td>
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### Third Semester

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<tbody>
<tr>
<td>PF 331 Criminology</td>
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<td>PF 333 Police Powers I</td>
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<td>PF 334 Evidence</td>
<td>3</td>
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<td>PF 335 Youth in Conflict With the Law</td>
<td>3</td>
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<td>PF 336 Principles of Ethical Reasoning</td>
<td>3</td>
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<tr>
<td>PF 338 Fitness and Defensive Tactics I</td>
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<tr>
<td>PY 399 Abnormal Psychology</td>
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### Fourth Semester

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<th>Credits</th>
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<tbody>
<tr>
<td>PF 442 Federal Statutes</td>
<td>3</td>
</tr>
<tr>
<td>PF 443 Police Powers II</td>
<td>3</td>
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<tr>
<td>PF 444 Investigations</td>
<td>3</td>
</tr>
<tr>
<td>PF 445 Conflict Management</td>
<td>3</td>
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<tr>
<td>PF 446 Community Policing</td>
<td>3</td>
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<tr>
<td>PF 448 Fitness and Defensive Tactics II</td>
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<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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* Communication Pathways

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Business - Accounting

2-year, Ontario College Diploma Program (0206)

This program is designed for students who want to develop skills and knowledge appropriate for an entry-level accountant in business, industry, or the not-for-profit sector. The program has been designed to accommodate students who want to continue their studies towards a professional accounting designation. These students may opt for one additional year in the Business Administration - Accounting Program to obtain additional credits towards a Certified General Accountant’s designation.

Employment Opportunities

Graduates will find employment in all areas of business and are particularly well adapted to employment in the small business enterprise.

Career categories include prospective positions such as bookkeepers, account records clerks, accounts payable and receivable clerks, payroll clerks or income tax clerks.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 11 College preparation Mathematics.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Selection Criteria

For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

Advanced Placement

Graduates from Thunder Bay high schools who successfully complete a prescribed set of business courses with a final mark of 70% or above may be eligible for college credit experience.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

University of Lethbridge – Alberta
Northwood University
Athabasca University
Griffith University, Queensland, Australia
University of Western Sydney, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

New College To College Transfer Agreement

This program has a transfer agreement with Cambrian College and Northern College. Students from these institutions who are registered in a similar program who wish to transfer into Confederation College’s program will be granted transfer credits. More details on this agreement can be found at www.confederationc.on.ca/articulation
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AC 102 Introductory Accounting</td>
<td>3</td>
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<tr>
<td>CS 040 * College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HR 131 Human Resources I</td>
<td>3</td>
</tr>
<tr>
<td>IN 100 Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>MK 114 Marketing Essentials</td>
<td>3</td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AC 202 Fundamental Accounting Principles</td>
<td>3</td>
</tr>
<tr>
<td>AC 222 Computer Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CS 220 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HR 232 Interpersonal Business Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MA 132 Basic Mathematics Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
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### Third semester

<table>
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<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AC 312 Auditing I</td>
<td>3</td>
</tr>
<tr>
<td>AC 313 Income Tax I</td>
<td>3</td>
</tr>
<tr>
<td>AC 353 Financial Accounting I</td>
<td>3</td>
</tr>
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<td>EN 400 Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>GB 317 Business Law and Ethics</td>
<td>3</td>
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<td>GE 376 Operations Management</td>
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<td>or General Education Elective</td>
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### Fourth semester

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<tbody>
<tr>
<td>AC 415 Management Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>AC 416 Income Tax II</td>
<td>3</td>
</tr>
<tr>
<td>AC 453 Financial Accounting II</td>
<td>3</td>
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<tr>
<td>AC 454 Finance I</td>
<td>3</td>
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<td>AC 458 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>EC 302 Principles of Economics</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

*Communication Pathways*

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Business Administration - Accounting

3-year, Ontario College Advanced Diploma Program (0222)

Accounting is a service activity which identifies, measures, records and communicates quantitative information, primarily financial in nature, about economic entities. As a part of a management team in business or government, our accounting graduate will help gather, organize and analyze information for owners, creditors and government agencies. Should a graduate choose to continue his/her studies towards a professional designation, the curriculum has been arranged to enable graduates to apply for advanced standing in the program conducted by the Certified General Accountants Association (C.G.A.).

Employment Opportunities

Graduates of the program are fully trained to assume accounting management positions in business and industry, accounting firms, non-profit organizations and in the government sector.

Career categories include prospective positions such as accounting department managers, accounts managers, accounting controllers or directors of financial services.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 11 College preparation Mathematics.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Selection Criteria

For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

Advanced Placement

Graduates from Thunder Bay high schools who successfully complete a prescribed set of business courses with a final mark of 70% or above may be eligible for college credit experience.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

- Lakehead University
- University of Lethbridge – Alberta
- Northwood University
- Athabasca University
- Griffith University, Queensland, Australia
- University of Western Sydney, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

New College To College Transfer Agreement

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### Business Administration - Accounting

#### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AC 102 Introductory Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CS 040 College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HR 131 Human Resources I</td>
<td>3</td>
</tr>
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<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>MK 114 Marketing Essentials</td>
<td>3</td>
</tr>
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<td><strong>Total</strong></td>
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#### Second semester

<table>
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<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>AC 202 Fundamental Accounting Principles</td>
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</tr>
<tr>
<td>AC 222 Computer Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CS 220 Business Communication</td>
<td>3</td>
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<td>HR 232 Interpersonal Business Dynamics</td>
<td>3</td>
</tr>
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#### Third semester

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<tr>
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<td>AC 313 Income Tax I</td>
<td>3</td>
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<td>AC 353 Financial Accounting I</td>
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<tr>
<td>EN 400 Entrepreneurship</td>
<td>3</td>
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<tr>
<td>GB 317 Business Law and Ethics</td>
<td>3</td>
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<td>GE 376 Operations Management or General Education Elective</td>
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#### Fourth semester

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<td>AC 416 Income Tax II</td>
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<td>AC 453 Financial Accounting II</td>
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<td>AC 454 Finance I</td>
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<td>AC 458 Management Information Systems</td>
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<td>AC 507 Management Accounting II</td>
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<td>AC 508 Advanced Topics in Financial Accounting</td>
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#### Sixth semester

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<td>AC 605 Work Placement</td>
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* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
**Business – Human Resources**

2-year, Ontario College Diploma Program (0220)

Human Resources Management is one of the “hot” careers in Canadian business in the new millennium. Modern business and industry strive to achieve efficiencies to improve profits. This process not only includes technological advances, but devotes attention to the effective use of human resources as well. This sensitive and complex area of study examines the way in which modern businesses manage their people to ensure job satisfaction, staff development, and cordial employee-employer relationships, while ensuring a positive effect on performance and productivity.

**Employment Opportunities**

The employment opportunities from these demanding and rewarding programs are excellent. Graduates receive employment as human resource administrators, human resource managers, industrial relations officers, union representatives and management trainees.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

**Selection Criteria**

For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

**Advanced Placement**

Graduates from Thunder Bay high schools who successfully complete a prescribed set of business courses with a final mark of 70% or above may be eligible for college credit experience.

**Articulation Agreements**

Graduates from this program are eligible to access articulation agreements with the following universities:

- University of Lethbridge – Alberta
- Northwood University
- Athabasca University
- Griffith University, Queensland, Australia
- University of Western Sydney, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

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## Business - Human Resources

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<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>AC 102 Introductory Accounting</td>
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</tr>
<tr>
<td>CS 040 * College Writing Essentials</td>
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<tr>
<td>HR 131 Human Resources I</td>
<td>3</td>
</tr>
<tr>
<td>IN 100 Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
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<td>MK 114 Marketing Essentials</td>
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<td><strong>Total</strong></td>
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### Second semester

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<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>AC 202 Fundamental Accounting Principles</td>
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<td>CS 220 Business Communications</td>
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<tr>
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<td>EC 302 Principles of Economics</td>
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<tr>
<td>HR 401 Collective Bargaining</td>
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</tr>
<tr>
<td>HR 414 Human Rights in Employment</td>
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<tr>
<td>HR 620 Managerial Accounting</td>
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* Communication Pathways

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Business Administration - Human Resources

3-year, Ontario College Advanced Diploma Program (0229)

Human Resources Management is one of the “hot” careers in Canadian business in the new millennium. Modern business and industry strive to effect efficiencies to improve profits. This process not only includes technological advances, but pays close attention to effective use of human resources as well. This sensitive and complex area of study examines the way in which modern businesses manage their people to ensure job satisfaction, staff development, and cordial employee-employer relationships, while ensuring a positive effect on the “bottom line”.

The Business Administration - Human Resources Diploma Program provides intensive and extensive labour-management studies and includes a four-month work placement in the sixth semester. It is designed to provide these career-motivated personnel the necessary training to meet the challenge of our complex industrial society.

Students graduating from the three-year Business Administration-Human Resources Diploma Program are eligible (subject to some grade level requirements) to write the comprehensive national exams to obtain the Certified Human Resources Professional designation as granted by the Human Resources Professionals Association of Ontario.

Employment Opportunities

The employment opportunities from these demanding and rewarding programs are excellent. Graduates receive employment as personnel administrators, human resource managers, industrial relations officers, personnel managers, union representatives and management trainees.

Selection Criteria

For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

Advanced Placement

Graduates from Thunder Bay high schools who successfully complete a prescribed set of business courses with a final mark of 70% or above may be eligible for college credit experience.

Articulation Agreements

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Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
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Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.
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<tr>
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<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>GB 500 Statistics</td>
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<td>HR 405 Employment Recruitment &amp; Selection</td>
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<tr>
<td>HR 501 Grievance Procedures &amp; Arbitration</td>
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<td>HR 506 Employment Equity/Pay Equity Law</td>
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## Sixth semester

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Business - Marketing
2-year, Ontario College Diploma Program (0209)

The Business - Marketing Program places emphasis on the development of the following critical marketing skills:

• the ability to communicate;
• the ability to analyze and make decisions with limited information;
• the ability to work as a member of a team;
• the development of research skills;
• creative problem solving.

The knowledge gained will enable graduates to make contributions to local, national and international employers upon being hired.

Students who complete the three-year program can be eligible to take their degree at Lakehead University through our new articulation agreement.

Graduates from the 2-year Business - Marketing program are encouraged to apply their courses for advanced credit towards the Registered Professional Marketer (RPM) designated with the Canadian Institute of Marketing. Check it out at www.cinstmarketing.ca

Employment Opportunities
Marketing graduates have pursued a variety of exciting careers in such areas as research, sports facility management, business consulting, advertising and promotion, industrial sales, consumer product sales, retail management and financial services as well as various positions with non-profit organizations.

Many graduates have moved from management trainees into supervisory positions within a short period of time. Others have established their own successful small businesses.

Career categories include prospective positions in industrial sales, retail management, advertising & promotion, consumer product sales, financial services, sports facility management, business development, or successful small business ownership.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
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# Business - Marketing

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<td>Introductory Accounting</td>
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<td>CS 040 *</td>
<td>College Writing Essentials</td>
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<tr>
<td>HR 131</td>
<td>Human Resources I</td>
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<tr>
<td>MC 155</td>
<td>Microsoft Office 2007 Applications</td>
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<td>MK 114</td>
<td>Marketing Essentials</td>
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<td>AC 220</td>
<td>Applied Financial Analysis</td>
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<td>Business Communications</td>
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<td>Interpersonal Business Dynamics</td>
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<td>Basic Mathematics Fundamentals</td>
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<td>MK 213</td>
<td>Advanced Marketing</td>
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<tbody>
<tr>
<td>EN 400</td>
<td>Entrepreneurship</td>
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<tr>
<td>GB 317</td>
<td>Business Law &amp; Ethics</td>
</tr>
<tr>
<td>GB 318</td>
<td>Culture and Communication</td>
</tr>
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<td>MK 317</td>
<td>Desktop Publishing</td>
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<td>MK 318</td>
<td>Advertising, Promotion &amp; Media</td>
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<tr>
<td>GE 376</td>
<td>Operations Management</td>
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<tr>
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<tbody>
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<td>Market Research for the 21st Century</td>
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<td>MK 409</td>
<td>Strategic Marketing Management</td>
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<td>MK 417</td>
<td>Professional Development Skills</td>
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<td>MK 418</td>
<td>Professional Selling</td>
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</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The Business Administration - Marketing Program offers students practical academic topics which will be used in the marketing field. During the sixth semester, a four-month placement will give the students an opportunity for work experience with participating employers.

The Marketing Program places emphasis on the development of the following critical skills:

- the ability to communicate;
- the ability to analyze and make decisions with limited information;
- the ability to work as a member of a team;
- the development of research skills;
- creative problem solving.

The knowledge gained will enable graduates to make contributions to local, national and international employers upon being hired. Practical experience is gained by working with clients from the community.

Students who complete the third year can be eligible to take their degree at Lakehead University through our new articulation agreement.

Graduates from the 3-year Business Administration - Marketing program are encouraged to apply their courses for advanced credit towards the Registered Professional Marketer (RPM) designation with the Canadian Institute of Marketing. Check it out at www.cinstmarketing.ca

Employment Opportunities

Marketing graduates have pursued a variety of exciting careers in such areas as research, sports facility management, business consulting, advertising and promotion, industrial sales, consumer product sales, retail management and financial services as well as various positions with non-profit organizations.

Many graduates have moved from management trainees into supervisory positions within a short period of time. Others have established their own successful small businesses.

Career categories include prospective positions in industrial sales, retail management, advertising & promotion, consumer product sales, financial services, sports facility management, business development or successful small business ownership.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. Or, successful completion of Mature Student Test.
3. Or, appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Selection Criteria

For additional information on selection criteria and requirements see page 10. Applicants with special needs see page 9.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

- Lakehead University
- University of Lethbridge – Alberta
- Northwood University
- Athabasca University
- Griffith University, Queensland, Australia
- University of Western Sydney, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

New College To College Transfer Agreement

This program has a transfer agreement with Cambrian College and Northern College. Students from these institutions who are registered in a similar program who wish to transfer into Confederation College’s program will be granted transfer credits. More details on this agreement can be found at www.confederationc.on.ca/articulation.
### Business Administration - Marketing

#### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 102 Introductory Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HR 131 Human Resources I</td>
<td>3</td>
</tr>
<tr>
<td>IN 100 Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
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<tr>
<td>MK 114 Marketing Essentials</td>
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#### Second semester

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<tr>
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<tbody>
<tr>
<td>AC 220 Applied Financial Analysis</td>
<td>3</td>
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<tr>
<td>CS 220 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HR 232 Interpersonal Business Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MA 132 Basic Mathematics Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MK 213 Advanced Marketing</td>
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#### Third semester

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<tr>
<td>GB 317 Business Law &amp; Ethics</td>
<td>3</td>
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<tr>
<td>GB 318 Culture and Communication</td>
<td>3</td>
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<tr>
<td>MK 317 Desktop Publishing</td>
<td>3</td>
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<tr>
<td>MK 318 Advertising, Promotion &amp; Media</td>
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<tr>
<td>GE 376** Operations Management or General Education Elective</td>
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#### Fourth semester

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<tr>
<td>GB 420 Market Research for the 21st Century</td>
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<td>MK 409 Strategic Marketing Management</td>
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<tr>
<td>MK 417 Professional Development Skills</td>
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<td>MK 418 Professional Selling</td>
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#### Fifth semester

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<td>GB 319 Internet Business &amp; E-Commerce</td>
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<td>GB 500 Statistics</td>
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<tr>
<td>MK 500 Integrated Marketing Communications</td>
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<td>MK 501 Pre-Placement, Career Readiness</td>
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<td>MK 503 Consumer Behaviour</td>
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#### Sixth semester

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<tr>
<td>MK 600 Work Placement</td>
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* Communication Pathways

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** Students intending to pursue the Articulation Agreement for their degree at Lakehead University must take GE376.
Human Resources Management
1-year, Ontario College Graduate Certificate Program (0272)

Human Resources Management is one of the “hot” careers in Canadian business in the new millennium. Modern business and industry strive to effect efficiencies to improve profits. This process not only includes technological advances, but pays close attention to effective use of human resources as well. This sensitive and complex area of study examines the way in which modern businesses manage their people to ensure job satisfaction, staff development, and cordial employee-employer relationships, while ensuring a positive effect on the “bottom line”.

The Human Resources Management Post-Degree/Diploma Certificate program provides intensive and extensive labour-management studies encompassing many areas of employment law. The program is designed to provide graduates from a degree or diploma program the necessary training to meet the challenges of our complex industrial society.

Students graduating from this two-semester program are eligible (subject to some grade level requirements) to write the comprehensive national exams to obtain the “Certified Human Resources Professional” designation as granted by the Human Resources Professionals Association of Ontario.

Employment Opportunities

The employment opportunities from these demanding and rewarding programs are excellent. Graduates receive employment as personnel administrators, human resource managers, industrial relations officers, personnel managers, union representatives and management trainees.

Admission Requirements

Degree or diploma from a recognized university or college.

If you are interested in taking this program and do not meet the above requirements, please take a look at our 2-year Business - Human Resources Diploma Program or our 3-year Business Administration - Human Resources Advanced Diploma Program.

NOTE: While not a requirement, students will find some experience (educational or work-related) in accounting and economics beneficial.

Selection Criteria

For additional information on selection criteria and requirements see page 10. Applicants with disabilities please see page 9.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>HR 508 Introduction to Human Resources</td>
<td>3</td>
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<tr>
<td>HR 509 Labour Relations Law</td>
<td>4</td>
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<tr>
<td>HR 510 Compensation &amp; Benefits Admin</td>
<td>4</td>
</tr>
<tr>
<td>HR 511 Occupational Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HR 512 Training</td>
<td>3</td>
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<td>HR 520 Organizational Behaviour</td>
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Second semester

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<tbody>
<tr>
<td>HR 513 Collective Bargaining</td>
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<tr>
<td>HR 514 Human Resources Information Systems</td>
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<tr>
<td>HR 516 Grievance Procedures and Arbitration</td>
<td>3</td>
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<td>HR 517 Managerial Accounting</td>
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<tr>
<td>HR 519 Human Rights in Employment</td>
<td>3</td>
</tr>
<tr>
<td>HR 522 Human Resources Planning</td>
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<tr>
<td>HR 523 Employee Recruitment &amp; Selection</td>
<td>3</td>
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</table>

HR 530 Co-op Work Placement (May - August, optional) 620
HR 531 Co-op Work Placement Review 2
International Business and Trade
1-year, Ontario College Graduate Certificate Program (0278)

Confederation College delivers an excellent International Business program designed specifically for college and university graduates*. This challenging, one-year program, which includes an eight-week domestic or international work placement, is a must for those looking to work in business as corporations become increasingly global. Program graduates are also eligible to receive a Certified International Trade Professional (CITP) designation upon completion. Advancing your business competencies by holding an international business credential will allow you to play a more pivotal role in helping businesses succeed in today's global economy.

Advanced business courses...
Expand your expertise through advanced business courses with an international focus. Develop a solid understanding of global marketing, international research, logistics, strategic management, international business law, negotiations and international finance.

Learn a new language...
Learn how to converse in Mandarin and enhance your resume even further.

Gain a profession certificate...
Attain a professional designation upon graduation as a Certified International Trade Professional (CITP) and add to your job competitiveness.

Get valuable work experience...
Complete an eight-week domestic or international work placement at the end of the second semester and increase your chances of finding employment in the field. More than 50% of our students receive an offer of further employment on the successful completion of their work placement. The variety of career options available to student on graduation is extensive.

Employment Opportunities
As a graduate of the International Business and Trade program, you will have a variety of career options.

Choose traditional careers in areas such as Human Resources, Marketing, or General Business, knowing that you can offer your employer a strategic advantage through your international perspective.

You may also choose to work directly in international fields, such as: export marketing; negotiation and sales; international purchasing; business operations, logistics; or government development and research projects.

Admission Requirements
Degree or diploma from a recognized university or college.
International students require:
- A completed, signed application form
- A notarized, translated original transcripts of grades from a recognized post secondary institution
- A notarized, translated proof of graduation from a recognized post secondary institution
- Proof of English proficiency: TOEFL 550 or 215 computer score or IELTS 6.5

Other Requirements
It is advantageous, but not a requirement, for students to have some background in business, economics and/or commerce. Students must have a valid passport and be eligible to travel outside of Canada.

Selection Criteria
For additional information on selection criteria and requirements see page 10. Applicants with special needs see page 9.

Articulation Agreements
Graduates from this program are eligible to access articulation agreements with the following universities:
Griffith University, Queensland, Australia
For more information on articulation agreements refer to our college website at www.confederacion.on.ca/articulation.
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB 319 Internet Business and E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>IG 101 Researching International Markets</td>
<td>3</td>
</tr>
<tr>
<td>IG 102 Global Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>IG 104 Global Markets Today</td>
<td>3</td>
</tr>
<tr>
<td>IG 105 Customs and Global Logistics</td>
<td>3</td>
</tr>
<tr>
<td>IG 203 International Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>LA 700 Conversational Mandarin I</td>
<td>3</td>
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<td><strong>Total</strong></td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IG 200 Global Strategies/Global Networks</td>
<td>3</td>
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<tr>
<td>IG 201 International Business Law &amp; Trade Agreements</td>
<td>3</td>
</tr>
<tr>
<td>IG 202 International Consulting</td>
<td>3</td>
</tr>
<tr>
<td>IG 204 International Negotiations</td>
<td>3</td>
</tr>
<tr>
<td>IG 205 International Finance &amp; Accounting</td>
<td>3</td>
</tr>
<tr>
<td>LA 701 Conversational Mandarin II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

| IG207 Work Placement                       | 35      |
Office Administration – General
1-year, Ontario College Certificate Program (0230)

Office administration professionals provide the support necessary to maintain a well-organized business. A career in office administration is ideal for people with good organizational skills, an interest in computers and the ability to learn new procedures quickly. With today’s changing and diverse workplace, office assistants need excellent communication, human relations and technology skills.

The Office Administration General program is designed to teach practical and transferable skills, attitudes and knowledge to succeed in a variety of office settings. Students learn business applications in math, accounting and communications. They also receive hands-on training using current word processing, spreadsheet, presentation, database and desktop publishing software. Students are encouraged to develop essential problem solving, teamwork, decision making and interpersonal skills.

The Office Administration General program prepares students for an entry-level office job after one year of postsecondary business education.

The 4-week field placement in the second semester provides an opportunity to apply new skills and knowledge while obtaining valuable work experience.

Employment Opportunities
Graduates of the Office Administration General program are qualified for entry-level jobs as office assistants, administrative assistants, clerical support staff, data entry operators, file clerks, receptionists or microcomputer operators in private enterprises, educational institutions, government agencies, medical facilities, insurance companies, law firms, financial institutions or accounting firms.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

NOTE: Advanced credits may be obtained for courses where candidates can prove competency through Prior Learning Assessment & Recognition (PLAR) or previous completion of recognized courses from other academic jurisdictions. For more information on advanced credit and PLAR see page 13.

Selection Criteria
For additional information on selection criteria and requirements see page 10. Applicants with special needs see page 9.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 040* College Writing Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>OA 122 Office Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>OA 125 Word Processing Applications</td>
<td>4</td>
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<tr>
<td>OA 128 Presentations and Spreadsheets</td>
<td>4</td>
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<tr>
<td>OA 130 Business Math</td>
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Total 18

Second semester

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CS 220 Business Communications</td>
<td>3</td>
</tr>
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<td>OA 108 Introductory Accounting</td>
<td>3</td>
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<tr>
<td>OA 222 Office Procedures II</td>
<td>3</td>
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<td>OA 225 Advanced Word Processing</td>
<td>4</td>
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<td>OA 228 Desktop Publishing and Web Design</td>
<td>3</td>
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<tr>
<td>OA 230 Database Applications</td>
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Total 19

| OA 212 Field Placement (four-week block) | 8 |

NOTE: Advanced credits may be obtained for courses where candidates can prove competency through Prior Learning Assessment & Recognition (PLAR) or previous completion of recognized courses from other academic jurisdictions. For more information on advanced credit and PLAR see page 13.

Selection Criteria
For additional information on selection criteria and requirements see page 10. Applicants with special needs see page 9.

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Total 19

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Total 19

| OA 212 Field Placement (four-week block) | 8 |

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Selection Criteria
For additional information on selection criteria and requirements see page 10. Applicants with special needs see page 9.
Culinary Management
2-year, Ontario College Diploma Program (0218)

Food service is the fastest growing sector in the hospitality industry. Future employment trends show a significant gap between labour and supply and demand in the industry, particularly in the area of kitchen management. This program is designed to meet some of these needs.

To educate students in the management and culinary skills necessary to prepare and present fine foods, instruction is offered in menu planning and food preparation techniques in a modern food facility. Methods of controlling food, beverage and labour costs, the interpretation of financial statements and knowledge of law as it affects the hospitality industry also form an integral part of the program.

Management, particularly in the food service industry, requires personal interaction at many different levels, making effective “people skills” essential to the professional culinary manager.

To combine the practical and theoretical training, students will gain experience operating and controlling an on campus dining facility. Field placement in local hotels, institutions and restaurants will further enhance and reinforce the practical, academic and managerial training offered by the program.

Students will be encouraged to work during the summer in a food service facility to gain additional practical experience. The student may accumulate credit hours towards their chef’s certificate.

All Culinary Management students are required to conform to a strict code of dress, grooming and conduct during their enrolment in the program and their liaison with the business community. The nature of the industry also requires physical stamina and good health. Any previous experience in a fast food outlet, restaurant, hotel or institutional kitchen would be an asset to the student entering the program. In addition to the normal expenditure for textbooks, supplies and clothing, the student will be required to purchase two chef uniforms and a set of kitchen knives.

Note: Participation in this program could include the necessity for travel outside Canada.

Employment Opportunities
Employment opportunities from this program are excellent. Graduates will find employment in the kitchens of hotels, restaurants and institutions as cooks, sous chefs, and supervisors before moving into management positions.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Articulation Agreements
Graduates from this program are eligible to access articulation agreements with the following universities:

University of Lethbridge – Alberta

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
## Culinary Management

### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM 109 Culinary Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>CU 120 Basic Culinary Skills</td>
<td>5</td>
</tr>
<tr>
<td>CU 125 Basic Food Theory</td>
<td>3</td>
</tr>
<tr>
<td>CU 130 Baking and Pastry Arts I</td>
<td>4</td>
</tr>
<tr>
<td>CU 140 Nutritional Theory/Food Principles</td>
<td>3</td>
</tr>
<tr>
<td>HO 150 Computer Skills Applications</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU 210 Restaurant Cooking</td>
<td>5</td>
</tr>
<tr>
<td>CU 215 Planning for Profit</td>
<td>3</td>
</tr>
<tr>
<td>CU 220 Butchery and Garde Manger</td>
<td>3</td>
</tr>
<tr>
<td>CU 230 Baking and Pastry Arts II</td>
<td>3</td>
</tr>
<tr>
<td>HO 205 Intro to Dining Room Service</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

### Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU 320 A la Carte Cuisine</td>
<td>5</td>
</tr>
<tr>
<td>CU 325 Exploring International Cuisine</td>
<td>4</td>
</tr>
<tr>
<td>CU 330 Contemporary Cuisine and Trends</td>
<td>4</td>
</tr>
<tr>
<td>CU 335 Menu Planning and Design</td>
<td>3</td>
</tr>
<tr>
<td>GE 080 Foods of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>HO 340 Hospitality Marketing and Sales</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU 415 Advanced Culinary Skills</td>
<td>5</td>
</tr>
<tr>
<td>CU 420 Applied Culinary Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CU 430 World of Food and Wine</td>
<td>3</td>
</tr>
<tr>
<td>CU 435 Management Applications for Chefs</td>
<td>3</td>
</tr>
<tr>
<td>HO 402 Hospitality Entrepreneurship Project</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
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</tbody>
</table>

| HA 428 Field Placement International (2-week block) | 4 |

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Hospitality Management - Hotel, Restaurant and Resort
2-year, Ontario College Diploma Program (0216)

The hospitality industry offers scores of rewarding career opportunities. Each of these important positions requires active personalities, specific technical and social skills, specialized knowledge and a real drive for success. Our goal-oriented program will prepare students to enter the hospitality industry to take steps, which may, over a period of time, lead them to supervisory or managerial positions in hotels, motels, resorts, restaurants, and allied institutions. The courses offered in this curriculum are directed towards the preparation of such a person.

Students augment their classroom training with actual on-the-job work as part of the fieldwork program. This gives them an in-depth insight into the hospitality business.

All Hotel Management students are required to conform to a strict code of dress, grooming and conduct during their enrolment in the program and their liaison with the business community. The objective of the program is to provide men and women with both liberal and professional training for the hospitality industry. In addition to the normal expenditures for textbooks, supplies and clothing, the student will also be required to purchase uniforms.

*Note: Participation in this program could include the necessity for travel outside Canada. Please ensure that you access a passport prior to entry into this program.*

**Employment Opportunities**

After some years of experience, graduates have found employment as hotel managers, general managers, restaurant managers, country club managers, food services managers, banquet managers, catering consultants, cruise ship food and beverage, executive housekeepers, food and beverage managers, golf course/country club managers, seasonal resort managers, purchasing agent, sales representatives in hotels or allied industries and beverage controllers, front office managers, and fast food operations managers.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

**Recommended Courses:** any second language.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

**Physical Demands**

The occupation can entail long hours of standing and working in heat, lifting up to 50 pounds, climbing stairs, balancing and carrying large service trays of food and beverages.

**Articulation Agreements**

Graduates from this program are eligible to access articulation agreements with the following universities:

University of Lethbridge – Alberta

For more information on articulation agreements refer to our college website at [www.confederationc.on.ca/articulation](http://www.confederationc.on.ca/articulation).
## First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BM 108 Hospitality Math</td>
<td>3</td>
</tr>
<tr>
<td>CS 040 College Writing Essentials*</td>
<td>4</td>
</tr>
<tr>
<td>HO 110 Food &amp; Beverage Service Theory/</td>
<td></td>
</tr>
<tr>
<td>Practical (lab)</td>
<td>5</td>
</tr>
<tr>
<td>HO 112 Mixology and the World of Wine</td>
<td>3</td>
</tr>
<tr>
<td>HO 114 Introduction to Hospitality and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HO 150 Computer Skills Applications</td>
<td>3</td>
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<td><strong>Total</strong></td>
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<tr>
<td>HO125 Field Placement</td>
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## Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HO 210 Food &amp; Beverage Service Theory II /</td>
<td></td>
</tr>
<tr>
<td>Practical II (Lab)</td>
<td>5</td>
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<tr>
<td>HO 212 Front Office Operations</td>
<td>3</td>
</tr>
<tr>
<td>HO 214 Guest Service/Tourism in N.W. Ontario</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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<td>HO 225 Field Placement</td>
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## Third semester

<table>
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<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>CS 220 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CU 335 Menu Planning And Design</td>
<td>3</td>
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<tr>
<td>HO 300 Food and Beverage Control</td>
<td>3</td>
</tr>
<tr>
<td>HO 312 Hospitality and Restaurant Management</td>
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</tr>
<tr>
<td>HO 316 Cultural Diversity and International</td>
<td></td>
</tr>
<tr>
<td>Service (Lab)</td>
<td>3</td>
</tr>
<tr>
<td>HO 340 Hospitality Marketing and Sales</td>
<td>3</td>
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<tr>
<td>GE 080 Foods of the Americas</td>
<td></td>
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<td><strong>Total</strong></td>
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## Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HO 405 Nutritional Theory and Purchasing</td>
<td>3</td>
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<tr>
<td>HO 408 Housekeeping, Catering and Conventions</td>
<td>3</td>
</tr>
<tr>
<td>HO 410 Hospitality Human Resource Management</td>
<td></td>
</tr>
<tr>
<td>HO 412 Advanced Dining Room Service (Lab)</td>
<td>4</td>
</tr>
<tr>
<td>HO 416 Entrepreneurship Project</td>
<td>3</td>
</tr>
<tr>
<td>TA 408 Principles and Practices of Ecotourism</td>
<td>3</td>
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<td><strong>Total</strong></td>
<td><strong>19</strong></td>
</tr>
<tr>
<td>HA 428 Field Placement Int’l or Local</td>
<td></td>
</tr>
</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Cook Apprenticeship
Basic and Advanced Levels

This trade is commonly referred to as “Chef” Apprentice. In Ontario the designation of “chef” is “cook”.

Starting in September 2008 all students enrolled in culinary management will obtain the in-school outcomes upon graduation. This means that all On-The-Job training competencies are the only segment needed for eligibility to write a Certification of Apprenticeship Exam (Red Seal - Inter-provincial Standards Certification). Culinary Management students need to register as Apprentices. Confederation College has a support committee to act as a sponsor during their time at school.

Cook Apprentices from the industry can obtain the required in-school training through our “day release” scheduling. Apprentices can attend classes for basic or advanced level on a part time basis. Class schedules will be 1-3 days part-time ranging from 9 to 17 hours total each week. Apprentices will even have options of when they can attend certain classes.

Related Programs
If a career in culinary interests you, you might also want to consider the following related program(s): Culinary Management (2 yrs).

What is Apprenticeship?
It is a hands-on training program for people who want training in skilled trades or occupations. About 90% of apprenticeship involves on-the-job training with your employer. The remainder involves related in-class training.

What are the Entrance Requirements?
You or your employer will contact the apprenticeship office. A training consultant will arrange a meeting at the workplace to assess the sponsor's/employer's ability to train, assess the individual, prepare the training agreement/contract, and initiate the training.

Basic Level Classes (2x16 weeks)

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU 120 Basic Culinary Skills</td>
<td>5 hrs</td>
</tr>
<tr>
<td>CU 130 Baking &amp; Pastry Arts I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>BM 109 Hospitality Math</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CU 125 Basic Culinary Theory</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CK 102 Nutritional Theory (15 hrs total semester)</td>
<td>0.9 hrs</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU 210 Restaurant Cooking</td>
<td>5 hrs</td>
</tr>
<tr>
<td>CU 220 Butchery &amp; Garde Manger</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CK 110 Business Development (15 hr total semester)</td>
<td>0.9 hrs</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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Advanced Level Classes (2x14 weeks)

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<tr>
<th>Course Number/ Title</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>CU 320 A la Carte Cuisine</td>
<td>5 hrs</td>
</tr>
<tr>
<td>CU 330 Contemporary Cuisine &amp; Trends</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CU 335 Menu Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CK 210 Business Development (15 hr total semester)</td>
<td>1 hr</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
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Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU 415 Advanced Culinary Skills</td>
<td>5 hrs</td>
</tr>
<tr>
<td>CU 430 World of Food &amp; Wine</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CU 220 Baking &amp; Pastry Arts II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CU 215 Planning for Profit</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CU 435 Management Applications for Chefs</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>
Tourism and Travel - Adventure and Ecotourism
2-year, Ontario College Diploma Program (0250)

Love to travel and get paid for doing it? The travel industry is anything but conservative and stagnant. Despite issues affecting International travel around the globe, there continues to be a demand for qualified specialists at all levels. The Tourism and Travel-Adventure and Ecotourism Diploma is a distinctive hybrid travel and tourism program where students directly explore the travel trade and the outdoor tourism industry, as well as cultural and environmental sensitivities within Ontario and globally.

The students will become proficient using a Global Distribution System, which contains airline schedules, fares and other pertinent information for the tourist travelling abroad. Students will learn about different cultures and destinations around the world through the language of geography. Emphasis is placed on the business side of tourism, tour operations, travel industry technology and selling techniques. The students will be required to obtain Industry Certifications, choosing from a variety of Outdoor Pursuit programs, CITC destination specialist certifications, or Online Flight Attendant training.

A key component of the program is the opportunity for students to experience and acquire ecotourism and outdoor adventure skills. Students will begin the program with an orientation canoe trip with their fellow classmates and faculty, through the pristine waters of Northwestern Ontario. As an outdoor classroom, students will discover that Northwestern Ontario is a renowned four-season destination which provides a ready-made environment for practical learning.

Students will also gain valuable experience and contacts by working in the tourism industry, part of a 16-week mandatory cooperative education program. During the fourth semester, students will experience another culture by participating on the International Field Trip. This ‘Familiarization Trip’ (as it is known in the industry) is a training device in which students will tour and visit major tourist attractions, resorts and other facilities to acquire tangible knowledge about a product or destination for future use as a sales tool.

The Tourism Employer’s Wish List:
• Have to be outgoing - enjoy talking to people
• Be a team player - work well with others
• Need to have the desire to learn
• Should have a theoretical background - need to understand how things work
• Critical to be a fast learner - after a crash course, you’re off into the real world
• Need to perform well under pressure
• Requires good business and communication skills
• Needs strong customer service focus - be interested in people willing to help
• A strong interest in geography and culture
• Industry’s biggest requirement - great attitude!

A job for today,” as they say in the industry, and “a career for tomorrow.”

Employment Opportunities
Tourism jobs offer advancement, transferable skills valued throughout the industry, and ongoing training.

Graduates have obtained employment ranging from front line to managerial positions, by airlines, travel agencies, hotels, and resorts, cruise lines, national railway companies, government tourist offices, tour operators, heritage and interpretive centres, tourist outfitters, local and regional tourism associations, and major tourist attractions.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Articulation Agreements
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### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HO 100 Introduction to Hospitality &amp; Tourism Computers</td>
<td>3</td>
</tr>
<tr>
<td>TA 100 Discover North America</td>
<td>3</td>
</tr>
<tr>
<td>TA 101 Dimensions of the Tourism Industry</td>
<td>3</td>
</tr>
<tr>
<td>TA 103 Group Dynamics for Leadership in Tourism Activities</td>
<td>3</td>
</tr>
<tr>
<td>TA 107 Creating Service Excellence</td>
<td>3</td>
</tr>
<tr>
<td>TA 108 Basic Accounting Applications</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GE 275 Indigenous Tourism</td>
<td>3</td>
</tr>
<tr>
<td>TA 200 Discover Europe and Asia</td>
<td>3</td>
</tr>
<tr>
<td>TA 202 Air Travel Orientation I</td>
<td>3</td>
</tr>
<tr>
<td>TA 206 Marine and Land Tours I</td>
<td>3</td>
</tr>
<tr>
<td>TA 210 Sustainable Tourism Development</td>
<td>3</td>
</tr>
<tr>
<td>TA 218 Parks and Heritage Interpretation</td>
<td>3</td>
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<td><strong>Total</strong></td>
<td><strong>18</strong></td>
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<tr>
<td>TA 204 Co-op Education</td>
<td>480 (16 weeks, May - August)</td>
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### Third semester

<table>
<thead>
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<th>Credits</th>
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<tbody>
<tr>
<td>LA 135 Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>TA 300 Discover Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>TA 301 Adventure Trends and Specialities</td>
<td>3</td>
</tr>
<tr>
<td>TA 302 Air Travel Orientation II</td>
<td>3</td>
</tr>
<tr>
<td>TA 306 Marine &amp; Land Tours II</td>
<td>3</td>
</tr>
<tr>
<td>TA 307 Marketing for Tourism</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
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</tbody>
</table>

### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 400 Discover Africa and Oceania</td>
<td>3</td>
</tr>
<tr>
<td>TA 401 Risk Management, Law and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>TA 402 Air Travel Orientation III</td>
<td>3</td>
</tr>
<tr>
<td>TA 407 The Business of an Outdoor Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>TA 408 Principles and Practices of Ecotoursim</td>
<td>3</td>
</tr>
<tr>
<td>TA 409 Study Abroad Experience</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

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### TA 104 – Industry Certifications

Students must acquire certification in a minimum of three of the following courses or similar. One certification must be earned through the Orientation Canoe Trip equalling a total of three.

**Inbound Tourism Sector:**
- Flatwater Canoeing – Level 1 (A, B, C, D)
- Canoe Tripping – Level 1 (A, B)
- Sea Kayaking – Flat Water Level A
- Open Water SCUBA
- Standard First Aid & Basic CPR
- Wilderness First Aid
- Lakehead Search and Rescue
- Life Saving Society – Bronze Medallion
- Heritage Interpreter Certification
- Introduction to Global Positioning System (GPS)
- Lakewater Canoeing Level 1
- Moving Water Level 1 (A, B)

**Outbound Tourism Sector:**

- **Inflight Institute** – Online Flight Attendant Training
  - CT201 - One Flight Attendant Onboard
  - CT301 - Multiple Flight Attendants Onboard
  - CT401 - Wide Body/Multi-Crew Onboard

- **Restricted Radio Telephone Operator’s Certificate**

- **CITC (Canadian Institute of Travel Counsellors):**
  - **Destination Specialist Certificates:**
    - Mexico Destination Specialist
    - Caribbean Destination Specialist
    - Alaska Destination Specialist
    - France Destination Specialist
    - Northern & Central Europe Destination Specialist
    - Hawaii Destination Specialist
    - Hong Kong Destination Specialist
    - Jordan Destination Specialist
    - Cuba Destination Specialist

  - **Lifestyle Specialist Certificates:**
    - Accessible Travel
    - Gay & Lesbian Travel
    - Golf Travel Specialist
    - Honeymoon and Destination Weddings
    - Luxury Travel
    - Mature Adult Travel Specialist
    - Niche Travel
    - North American Rail
    - Spa Specialist
We want to ignite your ideas! Spend a year producing a complete visual story using the best in industry software, hardware and processes. To answer the call of a growing entertainment industry in Canada, Confederation College has enhanced the Media Arts Cluster with an Animation Production Program to help you produce an industry quality product, featuring your story!

Our lab environment and experienced staff will expose you to the fine arts of:
- Storytelling and animation planning. Be ready to produce the most technically sophisticated sequences using tried and true methodologies.
- Drawing techniques to create unique, “camera-ready” artwork in both Adobe Flash and ToonBoom Studio.
- Digital compositing using the industry’s best software like Digital Fusion.
- Realistic human motion using Vicon Motion Capture and Natural Motion Endorphin.
- Particle and atmospheric effects with Autodesk’s Maya, 3D Studio and more.
- Commercial animation applications for television broadcast, film, advertising, entertainment and gaming.

Over the year, you will plan and execute your finished production utilizing the latest techniques in digital animation and filmmaking. Come prepared with your story and let us help you make it a success!

### Employment Opportunities

As Canada redefines the country’s economic priorities, the entertainment sector has been designated as one of the largest growth industries. Animators will bolster this growth through the production of cost effective digital productions. This new approach to visual storytelling requires a deep sensitivity to story and timing, an advanced understanding of content management and creation and the aesthetic eyes and ears to produce beautiful artwork and audio. Confederation College answers this call by offering a unique learning opportunity where you will produce a final demo reel featuring your stories, your ideas and your methodologies.

- Animator – 2D and Web
- Audio Technician/Producer
- Author
- Compositor
- Illustrator
- Project Manager
- Scriptwriter– storyboarding
- Sound Technician
- Video Technician

### Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance

### Required Courses: Completion of a post-secondary program in Multimedia Production, Broadcast Television, Film Production, Animation, Fine Arts, Graphic Arts, Motion Graphics, Compositing, Audio Engineering or Visual Effects.

Creative ability and artistic talent, as demonstrated by a portfolio of work.

### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN 101 Sound For Animation I</td>
<td>3</td>
</tr>
<tr>
<td>AN 102 Digital Animation Principles</td>
<td>3</td>
</tr>
<tr>
<td>AN 103 Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>AN 104 Pre-Visualization</td>
<td>3</td>
</tr>
<tr>
<td>AN 105 Illustration For Animation I</td>
<td>3</td>
</tr>
<tr>
<td>AN 106 Media Business Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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</tr>
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<tbody>
<tr>
<td>AN 201 Digital Animation Production</td>
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</tr>
<tr>
<td>AN 202 Illustration For Animation II</td>
<td>3</td>
</tr>
<tr>
<td>AN 203 Sound For Animation II</td>
<td>3</td>
</tr>
<tr>
<td>AN 204 Visual Effects</td>
<td>3</td>
</tr>
<tr>
<td>AN 205 Colour Strategies</td>
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<tr>
<td><strong>Total</strong></td>
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</table>
Broadcasting - Television Production

2-year, Ontario College Diploma Program (0148)

Some people “watch television”. Some people “make television”. If you want to be one of those who “makes television” then this is the program for you. Whether you are interested in creating commercials, music videos, documentaries, new and sports ... or you have a script idea that is just waiting to be developed, the Broadcasting - Television Production Program at Confederation College can “kick-start” your career and get you on the right path. We have been a leader in Broadcast Education in Canada for over 35 years and our graduates are found in every aspect of the television and production industry in Canada, the United States and beyond. We work hard to foster a “culture” that allows our students to explore their creativity while developing the necessary skills and attitudes of the trade.

Our students get intensive hands-on training in our 4,300 square foot media complex. As well, the small teacher-to-student ratio guarantees that they do not get lost in the crowd. Students have a chance to try it all - studio, location and mobile production, camera work and editing, announcing, journalism, photography, production and scripting writing, and more! The 4-week internship at the end of the second year will allow them to gain the valuable work experience that will help to land that important first job. Our students distinguish themselves on a regular basis by winning national awards for their production work. We are proud of what they accomplish. We invite you to come study with us.

Employment Opportunities

Graduates may apply for entry-level positions as announcers, writers, videographers, editors, reporters, production and operations personnel and for positions in the related fields of sales, promotion, advertising and public relations.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Continuation Criteria

A grade of “F” in any course in the Broadcasting - Television Production program means that the student cannot proceed to the next semester until the “F” grade is cleared. Students will only be allowed one attempt at re-taking a course and clearing an “F” grade.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

University of Western Sydney, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
### Broadcasting - Television Production

#### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>BT 125 Technical Operations I</td>
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<tr>
<td>BT 126 Camera &amp; Visual Storytelling</td>
<td>6</td>
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<tr>
<td>BT 127 Intro to Studio Operations &amp; Production</td>
<td>4</td>
</tr>
<tr>
<td>BT 128 Script Writing I</td>
<td>3</td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HU 272 Post 9/11, World at War</td>
<td>3</td>
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#### Second semester

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<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>BT 225 Technical Operations II</td>
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</tr>
<tr>
<td>BT 226 Television Studio, Location &amp; Mobile Production</td>
<td>4</td>
</tr>
<tr>
<td>BT 227 Video Journalism</td>
<td>3</td>
</tr>
<tr>
<td>BT 228 Digital Imaging</td>
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<tr>
<td>BT 229 Script Writing II</td>
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<td>BT 230 Non Linear Editing</td>
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#### Third semester

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<thead>
<tr>
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<tbody>
<tr>
<td>BT 324 Audio Production &amp; Post Production</td>
<td>3</td>
</tr>
<tr>
<td>BT 325 Documentary Production</td>
<td>3</td>
</tr>
<tr>
<td>BT 326 Series (Pilot) Production</td>
<td>4</td>
</tr>
<tr>
<td>BT 328 Post Production I</td>
<td>3</td>
</tr>
<tr>
<td>GE 374 Career and Portfolio Development</td>
<td>3</td>
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<tr>
<td>HU 208 Indigenous Voice and Vision in Canada</td>
<td>3</td>
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#### Fourth semester

**Part 1 - 12 weeks**

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<th>Course Number/ Title</th>
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<tr>
<td>BT 423 Media Management</td>
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<tr>
<td>BT 424 Post Production II</td>
<td>4</td>
</tr>
<tr>
<td>BT 426 Community Production Project</td>
<td>6</td>
</tr>
<tr>
<td>BT 429 Marketing for Television</td>
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<td>BT 431 On-Air Presentation</td>
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**Part 2 - 4 weeks**

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<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>BT 425 Internship (4 weeks)</td>
<td>36</td>
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</table>

*Communication Pathways*

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Film Production

2-year, Ontario College Diploma Program (0116)

The two-year film program is an intensive ‘hands-on’ introduction to the art and craft of film making that is shaped by the practical needs of the film industry. Students are required to learn a variety of practical, managerial and theoretical skills. These include:

• the use and operation of 16mm film cameras and high definition video cameras
• the application of sound in production and the use of a number of recording technologies including 5.1 surround
• the aesthetics of cinematography and the use of a variety of lighting equipment
• editing and DVD/Blu-ray authoring
• the management and organizational procedures required in pre-production, production and postproduction.

Students are required to research, prepare, write and produce a number of film projects including short dramas, documentaries (personal and industrial) and TV commercials.

Courses in film history, communications, photography, the humanities and social sciences support the student’s creative and aesthetic development.

Employment Opportunities

The broad base of skills acquired during the two years will prepare graduates for junior levels of employment in the feature film industry (documentary and drama) in a range of craft areas, and give graduates a solid understanding of the workings of the film industry. The two years will also equip graduates to work in the television industry (local or network), to work at film processing laboratories, service companies and pursue their goals as independent freelance filmmakers.

Career Categories include prospective positions such as Production Assistant, Editing Assistant, Camera Assistant, Sound Assistant, or, with greater experience Director, Writer, Editor, Director of Cinematography, Sound Designer, Art Director, Producer, Freelance and Self Employed or establishing your own production company or producing your own show.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

University of New Brunswick, St. John
University of Western Sydney, Australia
Griffith University, Queensland, Australia

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
## Film Production

### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
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<tr>
<td>FP 161 Production Theory I</td>
<td>3</td>
</tr>
<tr>
<td>FP 162 Production Practices I</td>
<td>3</td>
</tr>
<tr>
<td>FP 163 Production Consultation I</td>
<td>3</td>
</tr>
<tr>
<td>FP 164 Post Production I</td>
<td>3</td>
</tr>
<tr>
<td>FP 165 Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>HU 119 The History of Movies</td>
<td>3</td>
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<td><strong>Total</strong></td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>HU 208 Indigenours Voice and Vision</td>
<td>3</td>
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<tr>
<td>FP 261 Production Theory II</td>
<td>3</td>
</tr>
<tr>
<td>FP 262 Production Practices II</td>
<td>3</td>
</tr>
<tr>
<td>FP 263 Production Consultation II</td>
<td>3</td>
</tr>
<tr>
<td>FP 264 Post Production II</td>
<td>3</td>
</tr>
<tr>
<td>FP 266 Non-Fiction Film Production</td>
<td>3</td>
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<tr>
<td>FP 267 Script Writing I</td>
<td>3</td>
</tr>
<tr>
<td>FP 268 Directing</td>
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### Third semester

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<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>FP 361 Production Theory III</td>
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<tr>
<td>FP 362 Production Practices III</td>
<td>3</td>
</tr>
<tr>
<td>FP 363 Production Consultation III</td>
<td>3</td>
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<tr>
<td>FP 364 Post Production III</td>
<td>3</td>
</tr>
<tr>
<td>FP 365 Traditional Photography</td>
<td>3</td>
</tr>
<tr>
<td>FP 367 Script Writing II</td>
<td>3</td>
</tr>
<tr>
<td>FP 369 Film Business</td>
<td>3</td>
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<tr>
<td>General Education Elective</td>
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### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FP 461 Production Theory IV</td>
<td>3</td>
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<tr>
<td>FP 462 Production Practices IV</td>
<td>3</td>
</tr>
<tr>
<td>FP 463 Production Consultation IV</td>
<td>3</td>
</tr>
<tr>
<td>FP 464 Post Production IV</td>
<td>3</td>
</tr>
<tr>
<td>FP 466 Non Fiction Film II</td>
<td>3</td>
</tr>
<tr>
<td>FP 469 Freelancing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

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Multimedia Production
3-year, Ontario College Advanced Diploma Program (0147)

Our world is moving towards a digital renaissance where art and logic converge to produce revolutionary interactive experiences on a host of new devices. The Internet has changed the way we consume media and Multimedia Production is the industry where this future is created.

Over three years, you will master the art of Interactive Design, strengthen your 2D and 3D design skills, see your art move with animation and motion graphics and publish your work to the Internet and a host of other digital formats.

During your fifth semester, you will focus on the creation of a professional portfolio designed to ensure employability and prepare you for a full sixteen-week job placement in Canada or even abroad.

We enjoy 8 studios that boast an impressive collection of the most up-to-date software including:
- Final Cut Studio with Final Cut Pro, Motion, Soundtrack, and Live Type.
- A host of open source applications for web programming and interactive design.
- 3D Studio Max. and Maya
- Z Brush for detailed 3D modeling.
- VRay for highly realistic rendering of 3D models and animation.
- ToonBoom Studio
- And many more

Our 8 studio spaces are fully complimented with the best hardware in the industry, including:
- Two primary labs housing 50 - 8 core Mac Pros with 23” cinema displays for 2D, 3D, interactive and motion design. Both labs run Microsoft Windows and Apple OS X for maximum exposure to industry software.
- A digital photography studio with 8 Mac Quad G5s attached to 2 large format Epson K3 printer for poster-sized output. The space was engineered to allow for accurate colour management, image manipulation and printing.
- A Vicon motion Capture Facility for rapid generation of natural human motion.
- A 16 track-recording studio with attached sound booth. The rooms includes a Machie board, Tanoy speakers and large compliment of fantastic microphones.
- A Mac Pro Animation Studio for advanced rendering using VRay, modeling with ZBrush and visual effect creation.
- Two photo studios that include a complete set of studio flashes, reflectors, soft boxes, backdrops and modeling lights.

If you are a creative individual and computer skills come easily to you, consider the Multimedia Production program. Enroll in this exciting program at Confederation College and you can open doors worldwide!

Employment Opportunities
The use of new media production is growing rapidly in a wide range of business and industry applications. Graduates from this program will experience employment opportunities in new media production from many areas including the following sectors: Web Design, Print Media, Advertising, Entertainment, Training and Education, Retailing, Publishing, and Telecommunications.

Career Categories include prospective positions such as:
- Animator - 2D, 3D, and Web
- Audio Technician/Producer
- Author, Designer - CD-ROM, DVD, print, and Web
- Developer-all media types
- Graphic Designer, Illustrator, Instructional designer, Interface designer, Photographer, Programmer, Project Manager, Scriptwriter - storyboarding, Sound Technician or Video Technician

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Recommended Courses: Grade 12 Mathematics

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to programs in business, hospitality, and media arts.

Articulation Agreements
Graduates from this program are eligible to access articulation agreements with the following universities:
- University of Western Sydney, Australia
- Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.
## Multimedia Production

### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
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</tr>
<tr>
<td>MM 103 Digital Photography and Imaging I</td>
<td>3</td>
</tr>
<tr>
<td>MM 114 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>MM 118 Creative Programming I</td>
<td>3</td>
</tr>
<tr>
<td>MM 124 3D Design I</td>
<td>3</td>
</tr>
<tr>
<td>MM 125 Website Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>MM 126 Multimedia and Computer Fundamentals</td>
<td>3</td>
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### Second semester

<table>
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<tbody>
<tr>
<td>MM 202 Video Production</td>
<td>3</td>
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<tr>
<td>MM 203 Digital Photography and Imaging II</td>
<td>3</td>
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<td>MM 218 Creative Programming III</td>
<td>3</td>
</tr>
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<td>MM 224 3D Design II</td>
<td>3</td>
</tr>
<tr>
<td>MM 226 Non-Linear Editing</td>
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<td>MM 227 Sound Production</td>
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### Third semester

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<tr>
<td>FA 119 Contemporary Aboriginal Artistic Design</td>
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<tr>
<td>MM 305 Electronic Publishing</td>
<td>3</td>
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<tr>
<td>MM 308 Motion Graphics</td>
<td>3</td>
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<tr>
<td>MM 309 Flash Action Scripting</td>
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<td>MM 324 3D Animation I</td>
<td>3</td>
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<tr>
<td>MM 325 Designing Dynamic Web Applications</td>
<td>3</td>
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<tr>
<td>PY 200 Psychology of Perception</td>
<td>3</td>
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### Fourth semester

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<tr>
<td>CS 222 Media Communications</td>
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<td>MM 400 Freelancing Business Management and Law</td>
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<tr>
<td>MM 424 3D Animation II</td>
<td>3</td>
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<tr>
<td>MM 461 Rich Media Application</td>
<td>3</td>
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<td>MM 462 Exploring Open Source Applications</td>
<td>3</td>
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<td>MM 463 Major Project</td>
<td>3</td>
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<td>MM 469 Client Project I</td>
<td>3</td>
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### Fifth semester

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<td>MM 500 Portfolio Production</td>
<td>3</td>
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<tr>
<td>MM 504 Marketing New Media</td>
<td>3</td>
</tr>
<tr>
<td>MM 524 3D Animation - Major Project</td>
<td>3</td>
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<tr>
<td>MM 525 Data Driven Websites and Applications</td>
<td>3</td>
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<tr>
<td>MM 569 Client Project II</td>
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<td>SY 180 Exploring Culture and Diversity</td>
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<td>General Education Elective</td>
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### Sixth semester

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<td>MM 600 Supervised Placement</td>
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*Communication Pathways*

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The dental assistant is a vital member of the oral health team who works in a collaborative, professional and ethical manner. The program prepares graduates for the proficient application of knowledge in a variety of areas such as clinical chair-side and intra-oral, laboratory, radiography administration, and health education and promotion skills. The clinical experience within Confederation College and the field placements is supported by the background provided through academic studies.

A person interested in a career in dental assisting must possess qualities that include taking an interest in helping people, having good health, having self-discipline, being responsible, having effective communication skills, self-motivation and problem solving skills.

Related Programs
If a career in dentistry interests you, you might also want to consider the following related program(s): Dental Hygiene (2 yrs).

Employment Opportunities
Graduates may find employment in private dental offices, community dental clinics, hospital dental clinics, public health units and specialty dental practices such as orthodontics, paedodontics, periodontics, oral maxillo facial surgery, dental sales representative.

Career Categories include prospective positions such as Chair-side Assistant, Advanced Skills Assistant, Administrative Assistant, Public Health Assistant, Dental Assisting, Educator or Dental Sales Representative.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University preparation English, Grade 11 or 12 Biology (College or University preparation), Grade 11 or 12 Chemistry (College or University preparation). Applicants who do not possess these requirements might consider our Pre-Health Sciences program which will provide the necessary preparation to enter this program.

Selection Criteria
Selection is determined by averaging results in the required English and Science courses. Applicants with the highest combined scores are provided offers of admission. In addition, a wait list is established using these results.

Physical Demands
Dental Assistants must have hand eye coordination and manual dexterity that will allow them to manipulate instruments and equipment used in the dental profession.

Dental Assistants must also have physical and motor capabilities that allow them to maneuver in relatively confined spaces in the dental office environment.

Other Requirements
- Student Medical Form with documentation of current immunization at registration (including a two-step TB Skin Test).
- Hepatitis B vaccination is highly recommended
- A certificate in a Heart Saver Course (CPR) and a certificate in First Aid prior to the commencement of clinical sessions
- Word-processing skills
- Students participate in field placements in the community. It is strongly recommended that out-of-town students arrange placement in their home community after consultation with faculty
- National Dental Assisting Examination Board (NDAEB)
  To perform the Level I and II Dental Assisting skills in Ontario, the graduate must successfully complete the National Dental Assisting Examination. The written examination fee is approximately $350
- When an applicant is accepted into the program, an estimate of expenses for the year will be provided
- A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus blocking you from completing program requirements.
- Each student is responsible for the purchase of a dental kit which is used throughout program courses (approximately $800.00)
Program Continuation Criteria

Students must attain at least a 2.0 overall grade point average to proceed from semester 1 to semester 2 and from semester 2 to semester 3.

Notice to Applicants: The Dental Assisting Program is not a prerequisite to our direct entry Dental Hygiene Program. Dental Assisting students will not be given preference in the selection of Dental Hygiene candidates.

First semester - 15 weeks

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>DE 120 Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>DE 121 Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>DE 130 Restorative Practice Laboratory</td>
<td>6</td>
</tr>
<tr>
<td>DE 131 Dental Radiography Theory</td>
<td>3</td>
</tr>
<tr>
<td>DE 132 Orofacial Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DE 133 Dental Materials</td>
<td>3</td>
</tr>
<tr>
<td>DE 134 Laboratory Skills and Techniques</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>28</td>
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</table>

Second semester - 16 weeks

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>DE 206 Dental Office Procedures</td>
<td>2</td>
</tr>
<tr>
<td>DE 208 Clinical Skills and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>DE 221 Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>DE 223 Medical Interventions</td>
<td>3</td>
</tr>
<tr>
<td>DE 230 Comprehensive Dental Care</td>
<td>3</td>
</tr>
<tr>
<td>DE 231 Intra-Oral Laboratory Practice</td>
<td>6</td>
</tr>
<tr>
<td>DE 232 Field Placement</td>
<td>3</td>
</tr>
<tr>
<td>DE 331 Comprehensive Dental Care II</td>
<td>2</td>
</tr>
<tr>
<td>SY 180 Exploring Human Diversity</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td>27</td>
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Third semester - 6 weeks

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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</thead>
<tbody>
<tr>
<td>DE 330 Level II Clinical Practice</td>
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</tr>
<tr>
<td>DE 332 Clinical Consolidation</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td>5</td>
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</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
**Dental Hygiene**

2-year, Ontario College Diploma Program (0608)

Dental Hygiene is a health care discipline involving both theory and practice. The practice of dental hygiene can generally be defined as a collaborative relationship in which the dental hygienist works with the client and society in general, to achieve and maintain optimal oral health as an integral part of well-being.

The dental hygiene practitioner develops and implements health promotion, and preventive and therapeutic interventions in a variety of settings. The professional role of a dental hygienist is multi-faceted involving five primary responsibilities: clinical therapy, health promotion, education, administration and research.

Upon successful completion of the Dental Hygiene Program and the National Dental Hygiene Certification Examination, graduates will receive a certificate of registration from the College of Dental Hygienists of Ontario as a Dental Hygienist.

**Related Programs**

If a career in dentistry interests you, you might also want to consider the following related program(s): Dental Assisting - (Levels I & II).

**Employment Opportunities**

Graduates may find employment in private dental offices, community dental clinics, hospital dental clinics, public health units, federal agencies, sales, consulting and specialty dental practices such as orthodontics, periodontics, paedodontics, etc.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

**And Courses Required:** Grade 12 College or University preparation English, Grade 11 or 12 Biology (College or University Preparation), Grade 11 or 12 Chemistry (College or University Preparation). Minimum midterm/final grade of 75% (B) in each required course. Those currently enrolled in the course must have a midterm and final mark of 75% or higher to qualify for selection/admission.

Completion of the one year certificate in Dental Assisting (Levels I & II) can provide you with advanced standing towards certain courses in the Dental Hygiene program if you already possess the program admission requirements. Applicants who do not possess these requirements might consider our Pre-Health Sciences program which will provide the necessary preparation for application to the Dental Hygiene program. Completion of a Pre-Health Sciences or Dental Assistant program does not guarantee admission to the Dental Hygiene program in a subsequent year.

**Selection Criteria**

Selection will be based on marks in the 3 required courses. Testing may be administered as part of the common Dental Hygiene testing delivered with some other Ontario Community Colleges across the province. Confederation College reserves the right to include such a test as part of the selection criteria for this program. A testing fee would be required.

Applicants with the highest combined scores will be selected, with a waitlist constructed. Due to the high number of applications we receive for the limited seats, we are only able to consider applications if the applicant is a permanent resident of Ontario, with a complete application as of February 1st.

**Physical Demands**

Good hand-eye coordination and manual dexterity is required to enable the student to manipulate precision instruments and equipment used in the dental profession.

The student must also have physical and motor capabilities that will allow them to manoeuvre in a relatively confined space in the dental office environment.
Other Requirements

1. Students are required to obtain a certificate in Cardiopulmonary Resuscitation and a certificate in First Aid prior to the commencement of clinical studies.
2. Student Medical Form with documentation of current immunization at registration (including a two-step TB Skin Test.)
3. Hepatitis B vaccination is highly recommended.
4. A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus blocking you from completing program requirements.
5. Each student is required to purchase a dental hygiene kit which will be required throughout the program courses, at an approximately cost of $3,000.

Program Continuation Criteria

Students must attain a minimum of 70% or higher in all dental hygiene core courses to proceed into the next semester. This standard must be met because successful graduates must pass a provincial registration exam that requires graduates to practice to a standard that ensures the “safety of the public”.

Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

Athabasca University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
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<tr>
<td>DH 109 Histology and Embryology</td>
<td>3</td>
</tr>
<tr>
<td>DH 110 Microbiology for the Hygienist</td>
<td>3</td>
</tr>
<tr>
<td>DH 111 Dental and Orofacial Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DH 114 Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>DH 132 Principles of Dental Hygiene I</td>
<td>6</td>
</tr>
<tr>
<td>DH 134 Radiography Theory</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>DH 231 Fundamentals of Oral Disease Prevention</td>
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<td>DH 232 Principles of Dental Hygiene II</td>
<td>3</td>
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<tr>
<td>DH 233 Dental Hygiene Clinic I</td>
<td>3</td>
</tr>
<tr>
<td>DH 236 Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>DH 237 Clinical Techniques Lab</td>
<td>3</td>
</tr>
<tr>
<td>DH 240 Dental Materials in Specialties</td>
<td>3</td>
</tr>
<tr>
<td>DH 242 Professional Practice for Dental Hygienists</td>
<td>3</td>
</tr>
<tr>
<td>SY 180 Exploring Human Diversity</td>
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<td><strong>Total</strong></td>
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Third semester

<table>
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<tr>
<td>DH 320 Periodontology</td>
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</tr>
<tr>
<td>DH 326 Oral Pathology</td>
<td>3</td>
</tr>
<tr>
<td>DH 331 Professions, Ideology and Change</td>
<td>3</td>
</tr>
<tr>
<td>DH 332 Process of Care Applications</td>
<td>3</td>
</tr>
<tr>
<td>DH 333 Dental Hygiene Clinic II</td>
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Fourth semester

<table>
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<tbody>
<tr>
<td>DH 330 Wellness-Issues and Controversies</td>
<td>3</td>
</tr>
<tr>
<td>DH 430 Community Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>DH 431 Special Needs Client Care</td>
<td>3</td>
</tr>
<tr>
<td>DH 432 Case Presentation</td>
<td>3</td>
</tr>
<tr>
<td>DH 433 Dental Clinic III</td>
<td>12</td>
</tr>
<tr>
<td>PY 299 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

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Medical Radiation Technology

2 1/2-year, Ontario College Advanced Diploma Program (0602)

Please Note: This program is under renewal and subject to change.

The increased utilization of complex medical imaging systems has emphasized the importance of highly skilled and dedicated individuals in the field of diagnostic medical radiation technology. The Medical Radiation Technologist (MRT) is a recognized professional under the Regulated Health Professions Act (Ont. Bill 80) and is regulated under the Medical Radiation Technology Act 1991. Graduates of accredited radiography programs are eligible for membership in professional associations such as the Canadian Association of Medical Radiation Technologists (C.A.M.R.T.) and the College of Medical Radiation Technologists of Ontario.

As a professional, the MRT must be a person with a keen sense of responsibility and possess a high degree of integrity and empathy for the patient combined with a desire to serve in the prevention and treatment of human disease.

The MRT is responsible for the production and processing of images (electronic & hard copy) for use by physicians in the diagnosis and treatment of a variety of traumas and medical conditions. Other duties may include the use of computerized hospital information systems and picture archive and communication systems.

A comprehensive two and a half year program, which prepares medical radiation technologists for entry to the profession, is offered by Confederation College with clinical rotations at the Thunder Bay Regional Health Sciences Centre and other sites in and out of Thunder Bay. Students will be expected to cover the travel and accommodation costs associated with all placements.

Within the program, the student will participate in a variety of theory courses mixed with laboratory practice before entering into clinical practice in the hospital.

The MRT Program is fully accredited by the Conjoint Committee on Medical Accreditation.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 English (University/College), Grade 12 Math (University or MCT 4C), Grade 11 or 12 Physics (University/College), Grade 11 or 12 Biology or Chemistry (University/College). Graduates from the old Ontario curriculum: Ontario Secondary School Diploma. Courses Required: Grade 12 Advanced English, Grade 12 Advanced Math (excluding Business Math), Grade 11 or 12 Advanced Physics, Grade 11 or 12 Advanced Biology or Chemistry

NOTE: Applicants must have a minimum of 75% in each of the required courses. Our Pre-Health Sciences program can provide required sciences courses. However, applicants would require a grade 12 Mathematics course from the academic stream.

Selection Criteria

1. Admission Interview Questionnaire - 20%
2. Knowledge of Career Questionnaire - 10%
3. High School Grades (required courses) 70%

Other Requirements

1. Observational visit to a radiology department (basis for questionnaire).
2. Student Medical Form with documentation of current immunization. TB test required.
3. Two (2) Personal References.

After acceptance into the program you will be required to provide the following:

5. Proof of certification in basic rescuer CPR. Certification must be maintained throughout the program.
6. Recent criminal reference check.

Physical Demands

The Medical Radiation Technologist must have the physical capabilities which would facilitate the lifting and supporting of patients, maneuvering and operating heavy, sophisticated equipment with fine electronic controls and the monitoring of precision instruments and gauges or complex displays.
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 007 Persuasive Writing</td>
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<tr>
<td>HS 125 Anatomy and Physiology I</td>
<td>3</td>
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<tr>
<td>RA 111 Patient Management</td>
<td>3</td>
</tr>
<tr>
<td>RA 113 General Radiography I</td>
<td>3</td>
</tr>
<tr>
<td>RA 115 Radiographic Equipment Operation I</td>
<td>3</td>
</tr>
<tr>
<td>RA 117 Clinical Lab I</td>
<td>3</td>
</tr>
<tr>
<td>RA 119 Radiographic Anatomy &amp; Pathology I</td>
<td>3</td>
</tr>
<tr>
<td>SY 066 Contemporary Community &amp; Family:</td>
<td></td>
</tr>
<tr>
<td>The Aboriginal Context</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24</strong></td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 225 Anatomy and Physiology II</td>
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</tr>
<tr>
<td>RA 208 Professional Practice/IPE</td>
<td>3</td>
</tr>
<tr>
<td>RA 209 Radiographic Anatomy &amp; Pathology II</td>
<td>3</td>
</tr>
<tr>
<td>RA 211 General Radiography II</td>
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</tr>
<tr>
<td>RA 213 Radiographic Equipment Operation II</td>
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</tr>
<tr>
<td>RA 215 Radiation Safety</td>
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<tr>
<td>RA 217 Clinical Lab II</td>
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<td>RA 219 Radiographic Procedures</td>
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### Third semester

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<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>GE 161 Interpersonal Communication Skills</td>
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<tr>
<td>RA 311 Adaptive Imaging</td>
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<tr>
<td>RA 313 Radiographic Equipment Operations III</td>
<td>3</td>
</tr>
<tr>
<td>RA 314 Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>RA 315 Cross-Sectional Anatomy/Pathology</td>
<td>3</td>
</tr>
<tr>
<td>RA 317 Clinical Lab III</td>
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<tr>
<td>RA 319 Specialized Imaging</td>
<td>3</td>
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<td>TBA</td>
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<td><strong>Total</strong></td>
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### Fourth semester

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<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RA 410 Clinical Rotation I</td>
<td>37.5</td>
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<tr>
<td>RA 412 Research Study</td>
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<td><strong>Total</strong></td>
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### Fifth semester

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<tbody>
<tr>
<td>RA 510 Clinical Rotation II</td>
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<tr>
<td><strong>Total</strong></td>
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### Sixth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RA 608 Comprehensive Exam</td>
<td>3</td>
</tr>
<tr>
<td>RA 610 Clinical Rotation III</td>
<td>37.5</td>
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<tr>
<td>RA 618 Exam Review</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>43.5</strong></td>
</tr>
</tbody>
</table>
Medical Laboratory Assistant

3 Semester, Ontario College Certificate Program (0603)

Medical Laboratory Assistants are important members of the health care team, working under the supervision of a Medical Laboratory Technologist. They are required to work with patients to perform laboratory tests and procedures, including positioning Holter monitors and performing ECGs. They also collect blood samples for laboratory analysis and assist professionals in the lab. The emphasis is on the practical performance of procedures. Recognition of problems and errors is required.

Graduates of this program will have demonstrated the ability to collect and sort specimens for analysis; perform venipunctures and acquire ECG tracings; prepare reagents, stains and media; prepare body fluids and tissues for microscopic examination and/or analysis; and perform routine technical procedures. Graduates are qualified to write the Ontario Society of Medical Technologists (OMST) and the Canadian Society of Medical Laboratory Science (CSMLS) certifications exams.

Employment Opportunities

Diverse employment opportunities exist with hospital, private and public health laboratories, clinics, research labs, and commercial diagnostic supply companies. Lab technician, phlebotomist (responsible for taking blood samples), and clinic assistant are typical positions.

Due to automation and centralization of laboratory services, forecasts for the future indicate employment opportunities for laboratory technicians with a broad base of skills.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Required Courses: Grade 12 Math (College or University Preparation), Grade 12 English (College or University Preparation), Grade 11 or 12 Chemistry (College or University Preparation), Grade 11 or 12 Biology OR Physics (College or University Preparation).

The majority of Grade 11 and 12 courses must be college or university preparation level or Successful completion of Confederation College 1-year Pre-Health Sciences Program.

Other Requirements

1. Current immunization, including two TB skins tests, Tetanus-Diphtheria and Polio (within 10 years), Measles, Mumps and Rubella (MMR), and Hepatitis B prior to entry into the program.
2. Accepted applicants must submit proof of a satisfactory medical examination.
3. Proof of certification in Standard First Aid and CPR level C, prior to the commencement of Semester 2.
4. Current criminal reference check (CPIC) at the student’s expense, prior to the start of field placement.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>HS 118 Windows for Service Professionals</td>
<td>3</td>
</tr>
<tr>
<td>ML 101 Laboratory Sciences and Techniques</td>
<td>6</td>
</tr>
<tr>
<td>ML 103 Specimen Procurement and Handling</td>
<td>6</td>
</tr>
<tr>
<td>PF 117 Human Diversity/Aboriginal People</td>
<td>3</td>
</tr>
<tr>
<td>PW 205 Structure and Function of the Human Body</td>
<td>3</td>
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</table>

Total 25

Students must maintain a mark of 60% in all core courses in order to advance to the second semester of the program.

Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ML 210 Clinical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ML 230 Hematology and Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>ML 250 Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>ML 270 Histotechnology and Cytology</td>
<td>3</td>
</tr>
<tr>
<td>ML 280 MLA Skills Integration Lab</td>
<td>6</td>
</tr>
<tr>
<td>ML 290 Field Placement</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 22

Students must maintain a mark of 60% in all core courses in order to participate in the final placement.

Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ML 390 Field Placement</td>
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</table>

Total 37.5

* Communication Pathways

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**Paramedic**

2-year, Ontario College Diploma Program (0694)

This two-year program provides the skills and knowledge to practice emergency pre-hospital medical care and to function as an integral member of the health team in assisting victims of accident or illness. Graduates will have demonstrated the ability to apply relevant theory, practice safely and competently, as well as comply with current legislation, regulations, standards and established policies and procedures.

**Employment Opportunities**

Graduates of the program are eligible to write the Ministry of Health’s Advanced Emergency Medical Care Attendant certification examination (A-EMCA). If successful, they can be employed as a primary care paramedic in the Province of Ontario. Graduates have been employed in ambulance services, in the field of health and safety, rescue, and dispatch.

Career Paths include prospective positions in air and land ambulance services, hospitals, fire departments, government agencies, manufacturing firms or in the private sector and include position titles such as Primary Care Paramedic, Advanced Care Paramedic, and Critical Care Paramedic.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

**And Courses Required:**

- Grade 11 Math & Grade 12 English (College or University Preparation), Grade 11 or 12 Biology (College or University Preparation), Grade 11 or 12 Chemistry (College or University Preparation)

*Note: To be considered in the final selection, applicants are required to successfully pass a pre-admission fitness test.*

Applicants who do not possess the necessary admission requirements (or equivalency) are encouraged to consider our Pre-Health Sciences Program which will provide the necessary preparation to apply to this program. Completion of the Pre-Health Sciences Program does not guarantee admission to the Paramedic program in a subsequent year.

**Selection Criteria**

Provided other admission requirements have been met, applicants with the highest selection scores will be offered admission. Selection is determined by averaging results in the required English, Math, Biology and Chemistry courses. Applicants with the highest combined scores are provided offers of Admission. A waitlist will also be established using the selection scores obtained.

**Physical Demands**

This program demands physical capabilities to facilitate the lifting and supporting of patients, maneuvering hospital equipment and fine motor skills for completion of technical tasks.

a) Students will be tested regularly in the program to ensure they are meeting these fitness levels. A Paramedic student requires a high level of aerobic fitness, flexibility and strength. The Paramedic Program Standards from the Ministry of Training, Colleges & Universities state that the graduate has to reliably demonstrate the ability to “Perform competently all 2-person lifts and transfers of patients weighing up to 95 kg (210 lbs) and of the necessary equipment (10lbs).”

b) Strength and fitness are large components of the Paramedic program. Candidates are strongly recommended to complete a Canadian Physical Activity, Fitness and Lifestyle Appraisal (CPAFLA). It is expected that the candidate scores at least average level in that appraisal. Candidates must also be able to free weight dead lift (squat) at least 55 kg prior to enrolment.
Other Requirements

To qualify for clinical/field placements, students must present the following prior to the start of classes:

1. Completion of the Confederation College Health Questionnaire that is mailed with your Offer of Admission. This must demonstrate proof of immunization.
2. Proof of current Standard First Aid and Basic Rescuer CPR certificate. Students are required to maintain an up-to-date First Aid and “Level C” CPR certificate (Health Care Provider) throughout the program. Ambulance standards state, CPR certificates must be renewed annually.
3. The potential student should be computer literate.

The following must be completed by the end of Semester I.

1. An Ontario Class “G” driver’s license must be submitted by the end of first semester for entry into AB 325 and AB 331 in the fall.
2. An annual Criminal Reference Check is required for placement at all ambulance services. A criminal record may prevent you from participating in placement experiences, thus blocking you from completing program requirements. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant.

Paramedic Clinical Placements

Confederation College reserves the right to determine the location of clinical placements based on marks and performance. External city placements costs are the student’s responsibility.

Program Continuation Criteria

In order to register in Year II of the Paramedic program, students must have successfully completed all of the courses in Year I of the program.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 107 Patient Care Theory I</td>
<td>4</td>
</tr>
<tr>
<td>AB 109 Patient Care Procedures Lab I</td>
<td>4</td>
</tr>
<tr>
<td>AB 111 Medico - Legal Aspects of Patient Care</td>
<td>2</td>
</tr>
<tr>
<td>AB 113 Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>AB 115 Physical Education I</td>
<td>3</td>
</tr>
<tr>
<td>AB 117 Communications for Paramedics I</td>
<td>3</td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>SY 180 Exploring Human Diversity</td>
<td>3</td>
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Total 26

Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>AB 206 Patient Care Procedures Lab II</td>
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<tr>
<td>AB 208 Patient Care Theory II</td>
<td>4</td>
</tr>
<tr>
<td>AB 212 Pathophysiology in Emergency Medical Care</td>
<td>3</td>
</tr>
<tr>
<td>AB 214 Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>AB 216 Communications for Paramedics II</td>
<td>3</td>
</tr>
<tr>
<td>AB 218 Physical Education II</td>
<td>2</td>
</tr>
<tr>
<td>AB 220 Clinical and Community Experience</td>
<td>6</td>
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<tr>
<td>General Education Elective</td>
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Total 28

Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AB 321 Patient Care Theory III</td>
<td>4</td>
</tr>
<tr>
<td>AB 323 Patient Care Procedures III</td>
<td>4</td>
</tr>
<tr>
<td>AB 325 Ambulance Operations</td>
<td>3</td>
</tr>
<tr>
<td>AB 327 Pharmacology for Paramedics</td>
<td>2</td>
</tr>
<tr>
<td>AB 329 Advanced Skills for Primary Care</td>
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</tr>
<tr>
<td>Paramedics - Theory</td>
<td>3</td>
</tr>
<tr>
<td>AB 331 Paramedic: Ambulance</td>
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<tr>
<td>Field Experience I</td>
<td>9</td>
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Total 25

Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 432 Paramedic: Hospital Clinical</td>
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<tr>
<td>AB 434 Paramedic Ambulance</td>
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<tr>
<td>Field Experience II</td>
<td>18</td>
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<tr>
<td>AB 436 Paramedic Comprehensive Review</td>
<td>2</td>
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<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 26

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The Personal Support Worker Program is designed to provide the student with the knowledge and skills to meet the expectations of this role. Personal Support Workers work under the supervision of Registered Nurses or Registered Practical Nurses.

Based on the individual needs of each person that they support, the Personal Support Worker (PSW) assists persons with the tasks of daily living such as; home management, personal care, family responsibilities, social and recreational activities. These services are provided in homes and apartments in the community, in long-term care facilities, congregate housing settings, in the workplace and in educational facilities. This program is intended to meet the Ministry of Health guidelines established by its Long Term Care Division.

**Employment Opportunities**

Graduates may find employment in homes for the aged, community based facilities, supportive housing and private homes.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University preparation English.

**Other Requirements**

Prior to clinical placements, students must present the following:

1. Receipt for a current Criminal Reference Check.
2. Completion of Confederation College Health Questionnaire demonstrating proof of immunization, which includes a 2 step-TB skin test.
3. Proof of Standard First Aid and CPR - Level C certificate. Students are required to be current throughout the program, CPR needs to be recertified every year.
4. A recent Criminal Reference Check - must be provided to the Program Coordinator at program registration and at the beginning of the academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus blocking you from completing program requirements.

**Physical Demands**

Personal Support Worker students must have physical capabilities that would facilitate the lifting and supporting of clients/residents, maneuvering equipment and completing technical tasks requiring fine motor skills and precision of movements.

**First semester**

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CS 040 College Writing Essentials</td>
<td>3</td>
</tr>
<tr>
<td>PN 128 Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>PW 101 Supportive Care Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PW 102 Professional Growth</td>
<td>3</td>
</tr>
<tr>
<td>PW 106 PSW Practice I: Lab</td>
<td>1</td>
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<tr>
<td>PW 107 PSW Practice I: Community Clinical</td>
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<td><strong>Total</strong></td>
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**Second semester A - 12 Weeks**

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<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PW 201 Supportive Care Theory II</td>
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</tr>
<tr>
<td>PW 205 Structure and Function of the Human Body</td>
<td>4</td>
</tr>
<tr>
<td>PW 206 PSW Practice II: Lab</td>
<td>3</td>
</tr>
<tr>
<td>PY 299 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PW 207 PSW Practice II: Long-Term Care Clinical</td>
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<td><strong>Total</strong></td>
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**Second semester B - 4 Weeks**

<table>
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<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PW 208 PSW Clinical : Consolidation</td>
<td>37</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

**Disclaimer:** Course schedule may vary based on client base requirements.
Practical Nursing

2-year, Ontario College Diploma Program (0619)

Please Note: This program is currently under renewal and subject to changes.

A practical nursing career offers challenge and the opportunity and satisfaction of providing bedside care. Practical nursing students in addition to studying nursing theory and related courses, work alongside other members of the health team as they acquire experience in clinical agencies within the community.

The Northern Partners in Practical Nursing Education (NPPNE) which include Sault College, College Boreal, Cambrian College, Canadore College, Niagara College, Confederation College and Northern College have made modifications to their practical nursing programs. The consortium has developed a program for Practical Nursing that is based on strong beliefs about the client, health, caring, nursing, and the role that teaching and learning play in enabling individuals and their families and groups to achieve health outcomes.

NOTE: Students wishing to transfer to or continue in a college within the consortium must maintain a minimum grade of 60% in all courses, including communications, service courses and electives.

Related Programs

If a career in nursing interests you, you might also want to consider the following related program(s): Bachelor of Science in Nursing (4 yrs).

Employment Opportunities

Upon successful completion of the program, graduates are eligible to write the examinations for registration in the Province of Ontario. Graduates find employment in general hospitals, psychiatric hospitals, chronic care facilities, Homes for the Aged, nursing homes, rehabilitation and community-based agencies.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 English (College or University Preparation), Grade 11 Mathematics (College or University Preparation), Grade 11 or 12 Biology (College or University Preparation), Grade 11 or 12 Chemistry (College or University Preparation)

Applicants who do not possess the necessary admission requirements (or equivalency) are encouraged to consider our Pre-Health Sciences Program which will provide the necessary preparation to apply to this program. Completion of the Pre-Health Sciences program does not guarantee admission to the Practical Nursing program in a subsequent year.

Program Continuation Requirements

Students must successfully complete all courses in the semester before progressing to the next semester. A minimum ‘C’ grade is required in all Nursing and Science courses (courses with prefix PN or HS).

Physical Demands

The Practical Nursing student must have physical capabilities that would facilitate the lifting and supporting of patients, maneuvering hospital equipment and completing technical tasks requiring fine motor skills and precision of movements.

Other Requirements

At Orientation, the student will provide proof of:
1. Student Medical Form with documentation of current immunization.
2. Hepatitis B and Flu vaccination is highly recommended.
3. Basic Cardiac Life Support, BLS-C for Health Care Providers prior to the start of the program. Certification must be completed each year.
4. A recent Criminal Reference Check - for Vulnerable Populations needs to be completed at the beginning of each academic year. All costs associated with police checks, testing and proof of certification are the responsibility of the applicant. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus blocking you from completing program requirements.

Note: It is highly recommended that students complete HS121 Anatomy and Physiology, prior to admission to lighten the course load.

Students must complete co-requisites within one calendar year before continuing in the Practical Nursing Program.
Articulation Agreements

Graduates from this program are eligible to access articulation agreements with the following universities:

Athabasca University and Nippissing University

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 040 * College Writing Essentials</td>
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<tr>
<td>HS 125 Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>PN 125 Professional Growth I</td>
<td>3</td>
</tr>
<tr>
<td>PN 126 Nursing Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PN 127 Nursing Practice I</td>
<td>4</td>
</tr>
<tr>
<td>PN 128 Human Relationships</td>
<td>3</td>
</tr>
<tr>
<td>PY 299 Developmental Psychology</td>
<td>3</td>
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<tr>
<td>General Education Elective</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HS 225 Anatomy and Physiology II</td>
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<tr>
<td>PN 225 Nursing Practice II - Clinical</td>
<td>12</td>
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<tr>
<td>PN 226 Nursing Practice II - Lab Theory &amp; Practice</td>
<td>4</td>
</tr>
<tr>
<td>PN 227 Nursing Theory II</td>
<td>3</td>
</tr>
<tr>
<td>PN 228 Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SY 066 Contemporary Community &amp; Family: The Aboriginal Context</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 218 Communications for Practical Nurses</td>
<td>3</td>
</tr>
<tr>
<td>PN 322 Professional Growth II</td>
<td>3</td>
</tr>
<tr>
<td>PN 326 Nursing Practice III Clinical</td>
<td>14</td>
</tr>
<tr>
<td>PN 327 Nursing Practice III Lab Theory &amp; Practice</td>
<td>4</td>
</tr>
<tr>
<td>PN 328 Pharmacology I</td>
<td>3</td>
</tr>
<tr>
<td>PN 329 Nursing Theory III</td>
<td>4</td>
</tr>
<tr>
<td>PN 330 Pathophysiology I</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
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</table>

Fourth semester A – (10 weeks)

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PN 422 Nursing Practice IV Clinical</td>
<td>14</td>
</tr>
<tr>
<td>PN 426 Nursing Practice IV Lab Theory &amp; Practice</td>
<td>3</td>
</tr>
<tr>
<td>PN 427 Pharmacology II</td>
<td>3</td>
</tr>
<tr>
<td>PN 428 Pathophysiology II</td>
<td>4</td>
</tr>
<tr>
<td>PN 429 Nursing Theory IV</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>28</strong></td>
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</table>

Fourth semester B – (8 weeks)

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN 526 Nursing Practice V</td>
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</tr>
<tr>
<td>PN 626 Nursing Practice VI</td>
<td>40</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>80</strong></td>
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</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Bachelor of Science in Nursing

4-year, Degree Program

The Lakehead University and Confederation College Bachelor of Science in Nursing Program began in 2002. It is a collaborative program, jointly offered by the two institutions and is four years in length. Students may have nursing classes at both the university and college campus throughout the four years and may be taught by nursing faculty from both institutions. Science and Elective courses take place at the university campus and are taught by university faculty.

The program is based on the primary health care model. It incorporates a strong theoretical component along with laboratory and a variety of clinical experiences. Graduates of the program will be able to work collaboratively with individuals, families and communities as well as health team members to promote, protect, and restore the health of the population.

Upon completion of the program, graduates are eligible to write the examinations required to practice and register with the College of Nurses of Ontario.

Admission Requirements

Applications for admission or re-admission are reviewed by the Office of Admissions and Recruitment of the University. Students who have not previously attended the University will forward their applications to the Ontario Universities Application Centre at Guelph. Applicants who are attending or have attended Lakehead University may apply directly to the Office of Admissions and Recruitment at the University.

1. Candidates from high school must meet the following criteria for admission:
   (a) Satisfactory completion of an OSSD including 6 Grade 12 U or M level courses, including program specific prerequisite courses with a minimum 70% overall average
   (b) Applicants must include Grade 12 U level Biology, Chemistry and English in their program.
   (c) Grade 11 U or M Mathematics is required.
   (d) Current Basic Cardiac Life Support certificate will be required within the first month of classes.
   (e) Proof of up-to-date immunization status, including Hepatitis B, is required for all students prior to beginning clinical placements. There may be additional costs associated with this immunization.

2. Mature students:
   (a) Candidates are required to have Grade 12 U level Chemistry (or equivalent).
   (b) Grade 11 U or M Mathematics and Grade 12 U English are strongly recommended.
   (c) Current Basic Cardiac Life Support certificate will be required within the first month of classes.
   (d) Proof of up-to-date immunization status, including Hepatitis B, is required for all students prior to beginning clinical placements. There may be additional costs associated with this immunization.
   (e) A current WHMIS certificate is required. It is the student’s responsibility to update this certificate on an annual basis.

Other Requirements

All students require a current WHMIS certificate. It is the student’s responsibility to update this certificate on an annual basis.
### First year - Fall

<table>
<thead>
<tr>
<th>Course Number/Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 1010  Introduction to Nursing</td>
</tr>
<tr>
<td>Nursing 1450  Health of Client Groups</td>
</tr>
<tr>
<td>Biology 2070  Human Structure</td>
</tr>
<tr>
<td>Chemistry 1210  Organic and Biochemistry for Health Sciences</td>
</tr>
<tr>
<td>Psychology 1100  Introduction to Psychology  General Education Elective</td>
</tr>
</tbody>
</table>

### First year - Winter

<table>
<thead>
<tr>
<th>Course Number/Title</th>
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<tbody>
<tr>
<td>Nursing 1415  Care and Comfort Skills 1</td>
</tr>
<tr>
<td>Nursing 1430  Clinical for Nursing 1415</td>
</tr>
<tr>
<td>Biology 2030  Principles of Physiology</td>
</tr>
<tr>
<td>Psychology 1100  Introductory Psychology  General Education Elective</td>
</tr>
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</table>

### Second year – Fall

<table>
<thead>
<tr>
<th>Course Number/Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 2110  Holistic Assessment</td>
</tr>
<tr>
<td>Nursing 2150  Care &amp; Comfort Skills II</td>
</tr>
<tr>
<td>Nursing 2500  Health Concepts</td>
</tr>
<tr>
<td>Nursing 2530  Clinical for Nursing 2500</td>
</tr>
<tr>
<td>Nursing 2030  Caring Across Lifespan - Maternal/Child</td>
</tr>
<tr>
<td>Nursing 2230  Clinical for Nursing 2030</td>
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### Second year – Winter

<table>
<thead>
<tr>
<th>Course Number/Title</th>
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<tbody>
<tr>
<td>Nursing 2050  Caring Across the Lifespan - Adult</td>
</tr>
<tr>
<td>Nursing 2250  Clinical for Nursing 2050</td>
</tr>
<tr>
<td>Nursing 2500  Health Concepts</td>
</tr>
<tr>
<td>Nursing 2550  Clinical II for Nursing 2500</td>
</tr>
<tr>
<td>Biology 2713  Introduction to Microbiology</td>
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</table>

Note: Nursing 2030/2230 and Nursing 2050/2250 may be interchanged between fall and winter.

### Third year – Fall

<table>
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<tr>
<th>Course Number/Title</th>
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<tbody>
<tr>
<td>Nursing 3170  Care of the III Client I</td>
</tr>
<tr>
<td>Nursing 3202  Care of the III Client II</td>
</tr>
<tr>
<td>Nursing 3210  Mental Health Nursing for 3202</td>
</tr>
<tr>
<td>Nursing 3600  Medical/Surgical Nursing for 3202</td>
</tr>
<tr>
<td>MA 0212  Quantitative Methods for the Health Scientist</td>
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<tr>
<td>2 Electives  Half Credit Courses.</td>
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### Third year – Winter

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<th>Course Number/Title</th>
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<tbody>
<tr>
<td>Nursing 3170  Caring for the III Client I</td>
</tr>
<tr>
<td>Nursing 3202  Care of the III Client II</td>
</tr>
<tr>
<td>Nursing 3800*  Medical/Surgical Nursing for 3202</td>
</tr>
<tr>
<td>Nursing 3510  Introduction to Nursing Research I</td>
</tr>
<tr>
<td>* Nursing 3600 is a double credit course (288 hours).</td>
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### Fourth year – Fall/Winter

<table>
<thead>
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<th>Course Number/Title</th>
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</thead>
<tbody>
<tr>
<td>Nursing 4110  Diversity in Health Care</td>
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<tr>
<td>Nursing 4130  Nursing Scholarship</td>
</tr>
<tr>
<td>Nursing 4370  Population Based Health</td>
</tr>
<tr>
<td>Nursing 4510  Nursing Research II</td>
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<tr>
<td>Nursing 4380  Community Health Nursing</td>
</tr>
<tr>
<td>Nursing 4460  Advanced Nursing Practice</td>
</tr>
<tr>
<td>Nursing 4600  Professional Nursing Practice</td>
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</tbody>
</table>

Bachelor of Science in Nursing
The purpose of the Pre-Health Sciences one-year certificate program is to provide a college and university level program for students who are recent secondary school graduates or mature students wishing to increase their knowledge of science and mathematics or students who wish to obtain the pre-requisites necessary for admission to Health Science related programs at the College or University.

Employment Opportunities

Upon completion of this program students will:
1. Have the background science knowledge necessary to enter a specific health science program.
2. Demonstrate the ability to communicate competently at a level required by business, industry and Health Science Programs
3. Know how to think critically and use problem-solving techniques
4. Achieve basic vocational knowledge and will have developed a vocational direction
5. Possess particular life skills essential for personal, student and career success

The Pre-Health Science program offers two streams. The College Program Level stream is geared towards those students who are pursuing health related programs at a college institution. The University Level stream is geared to preparing students to enroll in the Collaborative Nursing Program, the Medical Radiation Technology Program or other approved university programs.

Communications Requirements

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040-College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117-Communications Strategies or CS007-Persuasive Writing.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance

Note: Those interested in pursuing the B. Sc. Nursing (Collaborative) Program and the Medical Radiation Technology (MRT) Program require the successful completion (minimum 3.0 GPA) of the Pre-Health Sciences University Stream Certificate.

*Requirements for MRT may change when the program becomes a degree accreditation.

Those students interested in pursuing all other College Health Programs require the successful completion of the Pre-Health Sciences College Stream Certificate with a 3.0 GPA or the minimum program admission requirements *Please consult with each individual program coordinator to confirm entrance requirements.
**COLLEGE STREAM Program Courses***

*First semester - College Stream*

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 007 Persuasive Writing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CS 040 College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>MA 021 Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PH 147 Biology I</td>
<td>4</td>
</tr>
<tr>
<td>PH 148 Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PH 146 Health Career Informatics</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>GE 113 Making the Grade</td>
<td>3</td>
</tr>
<tr>
<td>PH 245 Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20 or 21</strong></td>
</tr>
</tbody>
</table>

*Second semester - College Stream*

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 031 Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>PH 247 Biology II</td>
<td>4</td>
</tr>
<tr>
<td>PH 248 Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Two of the following:</td>
<td></td>
</tr>
<tr>
<td>CS 217 Communications for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PH 245 Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

Upon completion of the certificate, students will be eligible to apply to Health Science Programs. Eligibility will be dependent on academic achievement and specific program requirements.

---

**UNIVERSITY STREAM Program Courses***

*First semester - University Stream*

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 007 Persuasive Writing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CS 040 College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>MA 105 Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PH 147 Biology I</td>
<td>4</td>
</tr>
<tr>
<td>PH 148 Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PH 146 Health Career Informatics</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>GE 113 Making the Grade</td>
<td>3</td>
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<tr>
<td>PH 245 Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>PH 144 Physics I (co-requisite MA105)</td>
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<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20 or 21</strong></td>
</tr>
</tbody>
</table>

* Students wishing to take Physics PH144 must be enrolled in MA105 and must pass a math challenge test during the first week of classes.

*Second semester - University Stream*

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 217 Communications for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>MA 205 Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PH 247 Biology II</td>
<td>4</td>
</tr>
<tr>
<td>PH 348 Chemistry - Advanced</td>
<td>7</td>
</tr>
<tr>
<td>One of the Following:</td>
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<tr>
<td>PH 245 Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>PH 244 Physics</td>
<td>3</td>
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<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

For further information on admission requirements for collaborative nursing (BScN) programs, please call the University of choice. Applicants may also require University/OAC level credits.

Student in either the College or University stream must have a minimum GPA of 2.0 to graduate from the Pre-Health Sciences Certificate Program.

**Regional Campus and Continuing Education-Distance Delivery only offer the College Level Program.**
Aboriginal - Canadian Relations

1-year, Ontario College Certificate Program

The Aboriginal Canadian Relations Certificate is a five course college certificate which explores the unique historic and contemporary position of Aboriginal peoples and their relationship with Canadian society. The program will introduce students to Aboriginal world view and knowledge, as well as to the social, legal, political position of Aboriginal communities which has resulted in constitutional recognition of rights, treaties and land claims. Contemporary and future issues and relationships will be examined. Students must take one course from “Aboriginal Canadian Context” and one course from “Indigenous Knowledge and World View” and three additional courses to complete the certificate. The flexibility in course choices will ensure that students can tailor their learning to their own interests and needs.

This certificate will be of interest to all individuals who are employed in government, private, public and community sectors that work with Aboriginal peoples, organizations or communities. It is particularly relevant to individuals living and working in Northwestern Ontario who are curious and interested in building bridges and relationships between Aboriginal and Canadian society. The certificate is also available through part time study, as well as independent through Ontario Learn.

Employment Opportunities

The Aboriginal Canadian Relations Certificate is relevant to all employment situations that involve working with Aboriginal peoples or communities. Social Service Workers, Police and Justice Workers, Human Resources, Nurses as well as Forestry, Mining, Business and Government sectors will all benefit from this program.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels
2. or OSSD (Workplace) with ENG4E and high-school counselor's recommendation
3. or Academic Upgrading Program: LBS 4 Mathematics and LBS 5 Communications
4. or GED
5. or successful completion of Mature Student Test

Program Continuation Requirements

Students must maintain a grade point average of 2.5 in order to obtain this certificate.

Alternative Delivery

1. Students presently enrolled in full time college programs may obtain this certificate concurrently during their course of study with the completion of 5 approved courses.
2. Part time study is available to community members.
3. Independent study is available through Ontario Learn.
   (* identifies courses available through Ontario Learn)

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV 100 * History of Aboriginal-Canadian Relations</td>
<td>3</td>
</tr>
<tr>
<td>LV 110 Government, Law and Aboriginal Peoples</td>
<td>3</td>
</tr>
<tr>
<td>LV 202 * Aboriginal People &amp; Self Government in Canada</td>
<td>3</td>
</tr>
</tbody>
</table>

Indigenous Knowledge and World View

One of the following:
- LV 109 Aboriginal Identity & Relationship to the Land - 3
- LV 210 Indigenous Knowledge & World View - 3

Three of the following:
- LV 212 Indigenous Leadership and Decision Making - 3
- LV 310 Indigenous Women: Issues and Advocacy - 3
- LV 315 * Aboriginal Peoples & Sustainable Development in the North - 3
- LV 340 Mediation & Negotiation in Aboriginal Communities - 4
- LV 408 * Restorative Justice Principles and Practices - 3
- LV 409 International Human Rights and Indigenous Peoples - 3
- LV 410 Contemporary Issues and Social Justice - 3
- LV 412 Advocating for Children and Youth - 3
- GES16 Community Development - 3
- GE516 General Education Elective with Aboriginal focus - 3

Total 15
Aboriginal Community Advocacy
2-year, Ontario College Diploma Program (0501)

The Aboriginal Community Advocacy Program is designed to prepare students to work in community based, government, political and quasi legal organizations whose purpose is to advocate or work with Aboriginal peoples. Students will gain knowledge of the legal, political and cultural position of contemporary Aboriginal society in relation to Canadian society and will explore best practices in leadership, self government, justice and land and resource management. A focus on Indigenous principles and a solid foundation in community development and advocacy skills will provide students with unique skill and knowledge base to work in the intersection of Aboriginal and Canadian societies in a diverse range of social justice related occupations.

Employment Opportunities
Graduates may expect to find employment in community organizations, Aboriginal political organizations, in government and private sector businesses. They will work as Court workers, Community Legal workers, Outreach and Frontline Advocacy workers, Treaty and Land Claims negotiators, Policy Analysts, Researchers, Community Development and Youth Workers and as Community Consultants and Liaison.

Career Categories include prospective positions such as: Policing, Aboriginal Court Worker, Community Based Advocate, Community Justice Worker, Community Development Consultant, Youth Outreach Worker, Resource Negotiator, Women’s Advocate, Policy Analyst, Aboriginal Liaison Worker, Education Authority, Counsellors, Community Program Facilitator, Legal and Political Researcher.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Students with a completed Diploma or Degree may be granted up to one year credit and be eligible for completion of the Accelerated Diploma option.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to Aboriginal Community Advocacy Program.

Other Requirements
Criminal Reference Check - A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year.

Communications Pathway
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040-College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117-Communications Strategies or CS007-Persuasive Writing.

Program Continuation Requirements
Students must maintain a grade point average of 2.0 in order to proceed to the Internship Placement in Fourth Semester.

Articulation Agreement
Graduates from this program are eligible to access an Articulation Agreement with:
Lakehead University
University of Ontario Institute of Technology
George Brown College

For more information on Articulation Agreements refer to our college website at www.confederationc.on.ca/articulation.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>One of the following:</td>
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<tr>
<td>CS 040 College Writing Essentials</td>
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</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CS 117 Communications Strategies</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MC155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>LV 100 History of Aboriginal-Canadian Relations</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>LV 109 Aboriginal Identity and Relationship to</td>
<td>3</td>
</tr>
<tr>
<td>the Land</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>LV 110 Government Law and Aboriginal Peoples</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>NC101 Aboriginal Languages I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18 or 19

Criminal Reference Check - A recent Criminal Reference Check must be provided to the Program Coordinator at program registration and at the beginning of each academic year.

Communications Pathway
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040-College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117-Communications Strategies or CS007-Persuasive Writing.

Program Continuation Requirements
Students must maintain a grade point average of 2.0 in order to proceed to the Internship Placement in Fourth Semester.

Articulation Agreement
Graduates from this program are eligible to access an Articulation Agreement with:
Lakehead University
University of Ontario Institute of Technology
George Brown College

For more information on Articulation Agreements refer to our college website at www.confederationc.on.ca/articulation.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>One of the following:</td>
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<tr>
<td>CS 040 College Writing Essentials</td>
<td>4</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CS 117 Communications Strategies</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MC155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>LV 100 History of Aboriginal-Canadian Relations</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>LV 109 Aboriginal Identity and Relationship to</td>
<td>3</td>
</tr>
<tr>
<td>the Land</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>LV 110 Government Law and Aboriginal Peoples</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>NC101 Aboriginal Languages I</td>
<td>3</td>
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</table>

Total 18 or 19
### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 516</td>
<td>Community Development Processes</td>
</tr>
<tr>
<td>LV 202</td>
<td>Aboriginal People &amp; Self Government in Canada</td>
</tr>
<tr>
<td>LV 204</td>
<td>Introduction to Advocacy</td>
</tr>
<tr>
<td>LV 209</td>
<td>Applied &amp; Legal Research and Writing</td>
</tr>
<tr>
<td>LV 210</td>
<td>Aboriginal Knowledge and World View</td>
</tr>
<tr>
<td>LV 212</td>
<td>Aboriginal Leadership and Decision Making</td>
</tr>
<tr>
<td></td>
<td>General Education Elective</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
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### Third semester

<table>
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<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LV 310</td>
<td>Aboriginal Women: Issues and Advocacy</td>
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<tr>
<td>LV 315</td>
<td>Aboriginal Peoples &amp; Sustainable Development in the North</td>
</tr>
<tr>
<td>LV 340</td>
<td>Mediation &amp; Negotiation in Aboriginal Communities</td>
</tr>
<tr>
<td>LV 390</td>
<td>Community Project</td>
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<td>General Education Elective</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
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### Fourth semester

<table>
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<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV 408</td>
<td>Restorative Justice Principles and Practices</td>
</tr>
<tr>
<td>LV 409</td>
<td>International Human Rights and Indigenous Peoples</td>
</tr>
<tr>
<td>LV 410</td>
<td>Contemporary Issues and Social Justice</td>
</tr>
<tr>
<td>LV 411</td>
<td>Advanced Advocacy Seminar</td>
</tr>
<tr>
<td>LV 412</td>
<td>Advocating for Children and Youth</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

### Accelerated Program

1 year, Ontario College Diploma Program

Each year a limited number of seats will be available to people with a University Degree or Community College graduates to enter the accelerated program. Students must apply to the Aboriginal Community Advocacy Program through OCAS and are required to have a minimum of 2.5 GPA or “B” average and provide a transcript in order to be accepted into the program.

The program is comprised of courses from the first and second year of the programs for the 2 semester duration of the Accelerated Program.

**NOTE:** A current Criminal Reference Check is required for entry into this program.

### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV 100</td>
<td>History of Aboriginal-Canadian Relations</td>
</tr>
<tr>
<td>LV 109</td>
<td>Indigenous Identity and Relationship to the Land</td>
</tr>
<tr>
<td>LV 110</td>
<td>Government Law and Aboriginal Peoples</td>
</tr>
<tr>
<td></td>
<td>General Education Elective with Aboriginal or Diversity focus</td>
</tr>
<tr>
<td>LV 310</td>
<td>Aboriginal Women: Issues and Advocacy</td>
</tr>
<tr>
<td>LV 315</td>
<td>Aboriginal Peoples &amp; Sustainable Development in the North</td>
</tr>
<tr>
<td>LV 340</td>
<td>Mediation &amp; Negotiation in Aboriginal Communities</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18 or 19</strong></td>
</tr>
</tbody>
</table>

### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV 202</td>
<td>Aboriginal People &amp; Self Government in Canada</td>
</tr>
<tr>
<td>LV 204</td>
<td>Introduction to Advocacy</td>
</tr>
<tr>
<td>LV 210</td>
<td>Indigenous Knowledge and World View</td>
</tr>
<tr>
<td>LV 411</td>
<td>Advanced Advocacy Seminar</td>
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<td>One of the following:</td>
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<tr>
<td>GE 516</td>
<td>Community Development Processes</td>
</tr>
<tr>
<td>LV 212</td>
<td>Aboriginal Leadership and Decision Making</td>
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<tr>
<td>LV 408</td>
<td>Restorative Justice Principles and Practices</td>
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<td>LV 409</td>
<td>International Human Rights and Indigenous Peoples</td>
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<tr>
<td>LV 410</td>
<td>Contemporary Issues and Social Justice</td>
</tr>
<tr>
<td>LV 412</td>
<td>Advocating for Children and Youth</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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</tbody>
</table>

### Accelerated Program

1 year, Ontario College Diploma Program

Each year a limited number of seats will be available to people with a University Degree or Community College graduates to enter the accelerated program. Students must apply to the Aboriginal Community Advocacy Program through OCAS and are required to have a minimum of 2.5 GPA or “B” average and provide a transcript in order to be accepted into the program.

The program is comprised of courses from the first and second year of the programs for the 2 semester duration of the Accelerated Program.

**NOTE:** A current Criminal Reference Check is required for entry into this program.
**College Access Program**

2-Semester, Ontario College Certificate Program (0101)

Designed to provide recent high-school graduates and mature students opportunities to consolidate their academic skills prior to entering other post-secondary programs, College Access emphasizes development in the areas of communications, mathematics, research, media awareness, critical thinking, computer applications, and personal management. As a complement to the program, an investigation of career and post-secondary options provides students with a basis for making informed career decisions. Graduates of the program will be prepared to pursue their studies in a range of post-secondary programs.

The College Access program:
- familiarizes students with the expectations of post-secondary level education;
- emphasizes the development of essential academic skills;
- provides a basis for making informed career decisions;
- provides opportunities to develop a critical awareness of the media;
- develops practical critical thinking and problem solving approaches;
- provides transferable credits in communications, mathematics, and computer applications;
- prepares students to pursue a range of post-secondary programs.

**Employment Opportunities**

College Access is a pathway to a post-secondary education; graduates obtain the skills base needed to pursue their career aspirations and to succeed in other post-secondary programs.

Applicants not meeting the admission requirements of certain programs are encouraged to consider College Access; College Access graduates will be eligible to apply to programs in:
- Business
- Hospitality
- Media Arts
- Community Services
- Applied Arts
- Negahneewin

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or Academic Upgrading Program: LBS 4 Mathematics and LBS 5 Communications.
4. or OSSD (Workplace) with ENG4E and high-school counselor’s recommendation.
5. or GED.

**First semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP 131 Communications I</td>
<td>3</td>
</tr>
<tr>
<td>CA 101 Critical Reading and Media Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CA 102 Essential College Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>CA 103 Personal Management and Career Pathways</td>
<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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**Second semester**

<table>
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<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP 236 Communications II</td>
<td>4</td>
</tr>
<tr>
<td>CA 201 Critical Reading for Academic Purposes</td>
<td>3</td>
</tr>
<tr>
<td>CA 202 Essential College Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>CA 203 Contemporary Issues and the Media</td>
<td>3</td>
</tr>
<tr>
<td>CA 204 Community Connections</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>
Native Child and Family Services
2-year Ontario College Diploma Program (0170)

Native Child and Family Services Program will prepare graduates to work in a challenging, and dynamic environment reflecting the demands and changing trends in Aboriginal communities and Nations. The new 2-year program is congruent with individual family and community needs and current legislation. Graduates will continue to be exposed to a holistic approach to learning and human service training.

Graduates will take to their employment a respect for, connection with, and understanding of traditions, values and beliefs of the community. They will be prepared to work in an intercultural, multilingual society where they can use all of their acquired knowledge, skills and experience to support families in the field of Child Welfare.

- To educate individuals whose primary job interest is to work with Aboriginal children, youth, families and communities, particularly in the field of Aboriginal child welfare
- Blends social service methods of best practice with Aboriginal approaches to provide graduates with a rich base from which to contribute to the development of healthy Aboriginal families and communities
- Field of child welfare is in a period of significant change and undergoing the major challenge of complying with the Ministry of Children’s and Youth Services
- Integration of academic knowledge and Aboriginal culture - knowledge and understanding adds uniqueness
- Graduates are prepared to work in intercultural, multilingual society where they use all their acquired knowledge, skills and attitudes to serve at risk children and families.
- Graduates through their life experiences and the skills taught in the program, will be equipped to facilitate community engagement and provide modern services based on Aboriginal practices and community decision making

Employment Opportunities
Graduates are able to fill employment opportunities with Aboriginal agencies, provincially funded agencies and federally-funded programs.

Graduates will also continue to prepare for and accept their positions as positive role models. This includes a demonstration of respect for, connection with and understanding of traditions, values and beliefs of the community. They will be prepared to work in an intercultural, multilingual society where they can use all of their acquired knowledge, skills and experience to support families.

Graduates will be guided in their educational experience by ethical principles that have underpinned the Native Child and Family Services Program. Commitment to children and families is paramount; health and wellness a goal for all Nations.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Applicants not meeting these admission requirements are encouraged to consider the College Access program; students who successfully complete the College Access program will be eligible to apply to Native Child and Family Services Program.

Students are also encouraged to acquire:
1. Criminal Reference Check
   A recent Criminal Reference Check will be required prior to the start of field placement. All costs associated with police checks, testing and proof of certificate are the responsibility of the student. The check is used by employers in this field as a screening requirement of field placement and employment. A criminal record may prevent you from participating in field placement experiences, thus preventing you from completing program requirements. Some agencies also require students to complete a Child Welfare Prior Involvement Check and a Vulnerable Persons Check.
2. Standard First Aid, Infant/Child CPR Certificate
   First Aid and CPR Certificates are also required prior to the start of field placement.

Communications Pathways
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040-College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117-Communication Strategies or CS007-Persuasive Writing.

Program Continuation Requirements
Students must achieve an overall Grade Point Average (GPA) of 2.0 to continue in from semester to semester.
Articulation Agreement

Graduates from this program are eligible to access an Articulation Agreement with:

University of Ontario Institute of Technology
George Brown College

For more information on Articulation Agreements refer to our college website at www.confederationc.on.ca/articulation

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 040 College Writing Essentials</td>
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<td>or CS 007 Persuasive Writing</td>
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<tr>
<td>HU 024 Historical Impacts of Colonialism on Indigenous Communities</td>
<td>3</td>
</tr>
<tr>
<td>NC 101 Aboriginal Languages I</td>
<td>3</td>
</tr>
<tr>
<td>NC 102 Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>NC 103 Child Welfare I</td>
<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
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<td><strong>Total</strong></td>
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Second semester

<table>
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<tbody>
<tr>
<td>NC 201 Aboriginal Languages II</td>
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<tr>
<td>NC 202 Human Services II</td>
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<tr>
<td>NC 203 Establishing Partnerships with First Nations</td>
<td>3</td>
</tr>
<tr>
<td>NC 205 Field Placement I</td>
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<tr>
<td>PY 063 Child Development</td>
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<tr>
<td>CS 330 Professional Communications</td>
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</tr>
<tr>
<td>NC 303 Advanced Seminar</td>
<td>3</td>
</tr>
<tr>
<td>NC 304 Working with Families</td>
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<tr>
<td>NC 305 Child Welfare II</td>
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<tr>
<td>NC 306 Contemporary Aboriginal Society</td>
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Fourth semester

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<th>Course Number/ Title</th>
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<tr>
<td>NC 401 Cultural Competency in Aboriginal Child Welfare</td>
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<tr>
<td>NC 402 Field Placement Seminar II</td>
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Fifth semester

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<th>Course Number/ Title</th>
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<tr>
<td>NC 550 Co-op Placement (optional 16 weeks x 35 hours/week)</td>
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</table>
Aerospace Manufacturing Engineering Technician
2-year, Ontario College Diploma Program (0311)

Canada’s Aerospace Industry provides opportunities for enthusiastic individuals to pursue a career with a difference. A career in the aerospace industry is extremely rewarding, offering motivated individuals the opportunity to work in a productive team environment. The Aerospace Manufacturing Technician program at Confederation College has been developed in consultation with Canada’s leading aerospace companies and teaches the student the diverse skills required to function effectively in a modern manufacturing environment. This recently renewed program is being offered at the Aviation Centre of Excellence of Confederation College, which is located at the Thunder Bay Airport. The design and manufacture of aerospace products requires the skills and inputs of many talented workers. An aerospace technician works alongside engineers and shop floor personnel and will manage projects while resolving manufacturing problems as they arise.

Employment Opportunities
Specific areas that the graduate may work in include process planning, quality assurance, tool design, CNC programming, CAD drafting and design, plant layout, composite manufacturing and technical liaison between the factory and the customer. Some graduates have found success in the area of aircraft retrofit and repair as well as technical sales. One major manufacturer has stated that Confederation College Aerospace Manufacturing graduates can enter at least a dozen job areas with minimal training. Skills learned in this program are easily transferable to other manufacturers including the automotive, bus, railcar and general manufacturing sector. For several years, many students have been recruited for related jobs even before graduation. Some graduates have entered management positions after only five years in the workforce. It is also possible to continue further education by completing one additional technology year by enrolling in the Aerospace Manufacturing Engineering Technology program at Confederation College after completion of the two-year diploma

Advisory Committee
Representatives from Bombardier, Boeing and Magellan participate on the Aerospace Manufacturing Program advisory committee to provide direction and feedback for the program.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University preparation English, Grade 12 College or University preparation Mathematics. Applicants with a Grade 11 Functions course may be considered for admission and may be required to take an additional mathematics course as part of their program of study.

Applicants lacking Mathematics requirements might consider our Pre-Technology program, which will provide the necessary preparation to enter a Technology program.

Advanced Placement
Graduates from Hammarskjold High School, Thunder Bay who successfully complete a prescribed set of technical courses with a 70% or above final mark, may be eligible for a college credit exemption.
## First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 007* Communication Strategies</td>
<td>3</td>
</tr>
<tr>
<td>MA 131 Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>TM 207 Physical Science for Aerospace &amp; Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>TM 111 Graphics Communication I</td>
<td>3</td>
</tr>
<tr>
<td>TM 121 Metal Fabrication Methods</td>
<td>3</td>
</tr>
<tr>
<td>TM 136 Machine Shop I</td>
<td>4</td>
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<td><strong>Total</strong></td>
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## Second semester

<table>
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<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 219 Communications for Technology</td>
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<tr>
<td>MA 231 Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>TM 207 Statics</td>
<td>3</td>
</tr>
<tr>
<td>TM 211 Graphics Communication II</td>
<td>3</td>
</tr>
<tr>
<td>TM 221 Aircraft Assembly Techniques Methods I</td>
<td>3</td>
</tr>
<tr>
<td>TM 236 Machine Shop II</td>
<td>3</td>
</tr>
<tr>
<td>TM 241 Computer Aided Design (CATIA)</td>
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<tr>
<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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## Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>TM 313 Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>TM 321 Aircraft Assembly Methods II</td>
<td>4</td>
</tr>
<tr>
<td>TM 333 Chemistry of Metals, Polymers and Ceramics</td>
<td>3</td>
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<tr>
<td>TM 336 CNC Programming and Metal Cutting Theory</td>
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<td>TM 346 Joining Processes</td>
<td>3</td>
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<td>TM 347 Tool Design I</td>
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<td><strong>Total</strong></td>
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## Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>MA 331 Mathematics III</td>
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<td>TM 436 CNC Programming</td>
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<td>TM 443 Manufacturing Processes</td>
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<td>TM 452 Metallurgy and Materials Testing</td>
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<tr>
<td>TM 453 Composites I</td>
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<td><strong>Total</strong></td>
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</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Aerospace Manufacturing Engineering Technology

3-year Ontario College Advanced Diploma Program (0312)

Students will now have the option of graduating from the 2-year Aerospace Manufacturing Engineering Technician Program with a technician diploma or from the Aerospace Manufacturing Engineering Technology with an advanced diploma after completing three years of study.

Canada’s aerospace industry provides opportunities for enthusiastic individuals to pursue a career with a difference. A career in the aerospace industry is extremely rewarding, offering motivated individuals the opportunity to work in a productive team environment. The Aerospace Manufacturing Program at Confederation College has been developed in consultation with Canada’s leading aerospace companies and teaches the student the diverse skills required to function effectively in a modern manufacturing environment. This recently renewed program is being offered at the Aviation Centre of Excellence of Confederation College, which is located at the Thunder Bay International Airport.

The design and manufacture of aerospace products requires the skills and inputs of many talented workers. An aerospace technologist works alongside engineers and shop floor personnel and will manage projects while resolving manufacturing problems as they arise.

Employment Opportunities

Specific areas that the graduate may work in include process planning, quality assurance, tool design, CNC programming, CAD drafting and design, plant layout, industrial engineering, composite manufacturing and technical liaison between the factory and the customer. Some graduates have found success in the areas of aircraft retrofit and repair as well as technical sales. One major manufacturer has stated that Confederation College Aerospace Manufacturing graduates can enter at least a dozen job areas with minimal training. Skills learned in this program are easily transferable to other manufacturers including the automotive, bus, railcar and general manufacturing sector. For several years, many students have been recruited for related jobs even before graduation. Some graduates have entered management positions after only five years in the workforce. It is also possible to continue further education by transferring some college credits to universities or other educational institutions.

Advisory Committee

Representatives from Bombardier, Boeing and Magellan participate on the Aerospace Manufacturing Program advisory committee to provide direction and feedback for the program.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required: Grade 12 College or University preparation English, Grade 12 College or University preparation Mathematics. Applicants with a Grade 11 Functions course may be considered for admission and may be required to take an additional mathematics course as part of their program of study.

Applicants lacking Mathematics requirements might consider our Pre-Technology program, which will provide the necessary preparation to enter a Technology program.

Advanced Placement

Graduates from Hammarskjold High School, Thunder Bay who successfully complete a prescribed set of technical courses with a 70% or above final mark, may be eligible for a college credit exemption.

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<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
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<td>TM 107 Physical Science for Aerospace &amp; Mechanical Engineering</td>
<td>3</td>
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<tr>
<td>TM 111 Graphics Communication I</td>
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<td>TM 121 Metal Fabrication Methods</td>
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<tr>
<td>TM 136 Machine Shop I</td>
<td>4</td>
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<td><strong>Total</strong></td>
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### Aeronautical Manufacturing Engineering Technology

#### Second semester

<table>
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<tr>
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<tbody>
<tr>
<td>CS 219 Communications for Technology</td>
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<tr>
<td>MA 231 Mathematics II</td>
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<td>TM 207 Statics</td>
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#### Third semester

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<tbody>
<tr>
<td>TM 313 Strength of Materials</td>
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#### Fourth semester

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<tbody>
<tr>
<td>MA 331 Mathematics III</td>
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<td>TM 436 CNC Programming</td>
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<td>TM 443 Manufacturing Processes</td>
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<td>TM 447 Tool Design II</td>
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<td>TM 453 Composites I</td>
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<tr>
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<td>TM 527 Introduction to Operations Management</td>
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<td>TM 531 Fluid Mechanics</td>
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<td>TM 539 Statistical Process Control</td>
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<td>TM 552 Advanced Materials</td>
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#### Sixth semester

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<td>TM 626 Automated Systems Design</td>
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<td>TM 628 Applied Operations Management</td>
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<td>TM 651 Applied Project</td>
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<td>TM 653 Composites II</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

*Communication Pathways*

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The Aviation - Flight Management Program at Confederation College has combined business, management and flight training into a unique program. The flight training has been designed to give the graduates their first aviation job with emphasis on ‘bush’ type training. The business and management training provides the graduates with the background knowledge to give them an excellent understanding of today’s aviation industry.

Applicants for the Aviation - Flight Management Program must obtain a Category 1 Medical Certificate before entry to the program. Flight training commences at the beginning of the first semester.

Progression to successive semesters is achieved by passing all courses on the initial attempt with a minimum grade of 70% for aviation core courses, and minimum 60% for service courses. There are also specific flight training objectives that must be achieved in each semester.

The college owns and operates 15 aircraft based at our Aviation Centre of Excellence hangar at the Thunder Bay Airport.

**Employment Opportunities**

Our graduates have great success at obtaining their first aviation job in a variety of positions. Many of our graduates find employment with float operators in Northwestern Ontario. Other graduates have preferred to continue into charter operations, scheduled services, flight instruction or the military. Our graduates are working at every level from bush operations to international airlines. Many are currently working for Air Canada, Westjet, Jazz, the Canadian Forces, Transport Canada, regional airlines and flight training units. We have graduates working throughout Canada and worldwide.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

   **And Courses Required:** Grade 12 College or University preparation English, Grade 11 Functions (University/College), Grade 12 Mathematics for College Technology or equivalent.

   **Courses recommended:** Physics Grade 11 or 12 (Strongly Recommended)

If you do not have one of the required high school courses but have a diploma or degree from a post secondary institution, please submit your transcript for consideration.

Applicants who do not possess the Grade 12 Mathematics for College Technology course (or equivalent) might consider our Pre-Technology program, which will provide the necessary preparation to enter a technology program.

**Other Requirements**

To be considered in the final selection, applicants are required to complete:

a) Category 1, Transport Canada medical
b) Be aware that this is a seven day/week program, including a summer semester

**Selection Criteria**

1. Academic Standing 100% (Secondary School Graduates/Potential Graduates)
   The selection average will be calculated using Grade 12 English, Grade 12 Mathematics and the next 2 highest senior academic grades. Applicants with highest scores will be offered admission.

2. Mature Student Admission Test - 60% / Marks in required courses - 40% (Mature Student Applicant only)
   Provided other admission requirements have been met, applicants with the highest selection scores will be offered admission.

   A wait list will be established using the selection scores obtained.

   For additional information on selection criteria and requirements see page 10. Applicants with special needs see page 9.

   Applicants will be notified if any additional testing is required.

**Physical Demands**

Successfully complete and maintain a Category 1, Transport Canada Medical.

**Articulation Agreements**

Graduates from this program are eligible to access an articulation agreement with:

Griffith University, Queensland, Australia.

For more information on articulation agreements refer to our college website at www.confederationc.on.ca/articulation
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<td>AF 102 Flight Training for PPL</td>
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<tr>
<td>AF 111 Ground School for Private Pilot Licence</td>
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<tr>
<td>AF 115 Aircraft Systems and Operations</td>
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<tr>
<td>AF 150 Human Factors</td>
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<tr>
<td>CS 007* Communication Strategies</td>
<td>3</td>
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<tr>
<td>MA 100 Mathematics</td>
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### Second semester

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<tr>
<td>AF 200 Advanced Ground School</td>
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<td>AF 220 Winter Survival</td>
<td>3</td>
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<tr>
<td>AF 222 Flight Training for PPL</td>
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<tr>
<td>AF 250 Pilot Decision Making</td>
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<td>CS 219 Communication for Technology</td>
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<td>GE 205 Exploring the Aviation Industry</td>
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<td>PH 101 Physics</td>
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<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
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### Third semester

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<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>AF 305 Float Training</td>
<td>5</td>
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<tr>
<td>AF 316 Navigation &amp; Cross Country Flying</td>
<td>14</td>
</tr>
<tr>
<td>AF 350 Airmanship</td>
<td>1</td>
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### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>AF 411 Ground School for Commercial Pilot Licence</td>
<td>6</td>
</tr>
<tr>
<td>AF 412 Engines &amp; Systems</td>
<td>5</td>
</tr>
<tr>
<td>AF 414 Introduction to IFR Ground School</td>
<td>3</td>
</tr>
<tr>
<td>AF 416 Flight Training for CPL</td>
<td>5</td>
</tr>
<tr>
<td>GB 202 Business Law</td>
<td>3</td>
</tr>
<tr>
<td>AC 107 Introduction to Accounting</td>
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### Fifth semester

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<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>AF 404 Air Carrier Operations</td>
<td>3</td>
</tr>
<tr>
<td>AF 407 Flight Safety/Advance Human Factors</td>
<td>3</td>
</tr>
<tr>
<td>AF 430 Aviation Heritage</td>
<td>3</td>
</tr>
<tr>
<td>AF 501 First Aid/CPR</td>
<td>1</td>
</tr>
<tr>
<td>AF 506 Flight Training for CPL</td>
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<tr>
<td>AF 514 IFR Ground School</td>
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<tr>
<td>MA 444 Advanced Computer Applications</td>
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<tr>
<td>MK 404 Supervision</td>
<td>3</td>
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<td><strong>Total</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

**Note:** This program is currently going through the renewal process and the curriculum is subject to change.

* Communication Pathways
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Aviation Technician - Aircraft Maintenance

2-year, Ontario College Diploma Program (0301)

Aircraft Maintenance is a well-established area of aviation technology with continuing requirements for entry-level personnel. High on the priority list are Aircraft Maintenance Engineers. Industry Canada predicts a shortage of qualified aviation personnel in the near future. Future graduation levels must rise to meet future industry employment demands.

The School of Aviation has a well established Aviation Technician - Aircraft Maintenance Program designed and developed in consultation with industry and Transport Canada. This program will provide the graduates with the advanced knowledge and skills necessary to develop into a competent and reliable Aircraft Maintenance Engineer.

Basic Training

Applicants for an AME license “M” rating must successfully complete an Approved Basic Training Course for fixed wing and rotary wing aircraft. Students need a minimum level of knowledge and skill in each of the topics or areas covered in this course as detailed in the learning objectives, to meet specific items in the Transport Canada curriculum.

The program is two years in duration and combines a mixture of theory and practical application. Airframe, engine and electrical courses are taught concurrently; approximately 50% of the time is devoted to practical and 50% to theory.

Accreditation

The program is accredited by Transport Canada. Graduates having an attendance record greater than 95% are given credit, determined by Transport Canada, towards the experience requirements for an Aircraft Maintenance Engineer’s Category “M” license.

Employment Opportunities

Graduates have found employment with Fixed Base Operators, Regional Carriers and the Major Airlines. The fixed wing and rotary wing training has afforded the graduate the option of completing his/her apprenticeship on either aircraft or helicopters. Graduates of this program are employed throughout Canada, either in maintenance or in the overhaul of aircraft/ helicopters, or in engine or component overhaul shops.

Career categories include prospective positions such as aircraft maintenance engineers (AME), aircraft inspectors, aircraft gas turbine engine technicians and aircraft structural repair technicians.

Students graduating from the Aviation Technician - Aircraft Maintenance Program at Confederation College with a GPA of at least 3.0 may be awarded extra consideration and some course credit towards the Aviation - Flight Management Program.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/ College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Courses Recommended: Grade 12 “Foundations for College Mathematics” and/or Grade 11 Physics will receive priority admission consideration.

Applicants who do not meet the entrance requirements are encouraged to apply for the Pre-Technology program to facilitate success in their Technology path.
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>AM 130 Aircraft Construction and Science</td>
<td>4</td>
</tr>
<tr>
<td>AM 170 Basic Circuits</td>
<td>3</td>
</tr>
<tr>
<td>AM 171 Basic Circuits Lab</td>
<td>2</td>
</tr>
<tr>
<td>AM 175 Introduction to Reciprocating Engines</td>
<td>3</td>
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<tr>
<td>AM 176 Introduction to Reciprocating Engines Lab</td>
<td>4</td>
</tr>
<tr>
<td>AM 178 Practical Aviation Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>AM 194 Standard Practices</td>
<td>4</td>
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<td>AM 195 Standard Practices Lab</td>
<td>4</td>
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<tr>
<td>CS 007* Persuasive Writing</td>
<td>3</td>
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<td><strong>Total</strong></td>
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### Second semester

<table>
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<th>Course Number/ Title</th>
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<tr>
<td>AM 230 Advanced Theory of Flight</td>
<td>3</td>
</tr>
<tr>
<td>AM 270 Power Generation and Distribution</td>
<td>3</td>
</tr>
<tr>
<td>AM 271 Power Generation and Distribution Lab</td>
<td>2</td>
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<tr>
<td>AM 275 Reciprocating Engine Systems</td>
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<td>AM 276 Reciprocating Engine Systems Lab</td>
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<tr>
<td>AM 280 Rotary Wing Theory of Flight</td>
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<tr>
<td>AM 281 Rotary Wing Theory of Flight</td>
<td>2</td>
</tr>
<tr>
<td>AM 288 Introduction to Gas Turbine Powerplants</td>
<td>2</td>
</tr>
<tr>
<td>AM 294 Metallic Structures &amp; Aeronautical Products</td>
<td>3</td>
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<tr>
<td>AM 295 Metallic Structures &amp; Aeronautical Products Lab</td>
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### Third semester

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<tr>
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<tr>
<td>AM 300 AME Responsibilities</td>
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<tr>
<td>AM 370 Flight Instrumentation</td>
<td>3</td>
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<tr>
<td>AM 371 Flight Instrumentation Lab</td>
<td>3</td>
</tr>
<tr>
<td>AM 375 Reciprocating Engine Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>AM 376 Reciprocating Engine Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>AM 383 Rotary Wing Maintenance</td>
<td>3</td>
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<tr>
<td>AM 388 Gas Turbine Powerplant Maintenance</td>
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<tr>
<td>AM 389 Gas Turbine Powerplant Maintenance Lab</td>
<td>3</td>
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<tr>
<td>AM 394 Airframe Systems &amp; Flight Controls</td>
<td>3</td>
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<tr>
<td>AM 395 Structure Repair &amp; Flight Control Lab</td>
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<td>CS 219 Communications for Technology</td>
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### Fourth semester

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<td>AM 400 Canadian Aviation Regulations</td>
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<tr>
<td>AM 403 Composites</td>
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<tr>
<td>AM 470 Radio &amp; Data Systems</td>
<td>3</td>
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<td>AM 471 Radio &amp; Data Systems Lab</td>
<td>4</td>
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<tr>
<td>AM 474 Propellers</td>
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<tr>
<td>AM 488 Gas Turbine Powerplant Operation &amp; Inspection</td>
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<tr>
<td>AM 489 Gas Turbine Powerplant Operation &amp; Inspection Lab</td>
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<tr>
<td>AM 494 Aircraft Systems &amp; Inspection</td>
<td>3</td>
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<tr>
<td>AM 495 Aircraft Systems &amp; Inspection Lab</td>
<td>7</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

**Note:** This program is currently going through the renewal process and the curriculum is subject to change.

* Communication Pathways
Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The Aviation Industry has evolved with more and more electronic systems and has asked for more in-depth studies of the avionics systems for the Aircraft Maintenance Technician graduates. Rapidly changing technologies in displays, computers and the worldwide acceptance of satellite navigation have driven aircraft sophistication beyond that normally dealt with in the Basic Training requirements for Aircraft Maintenance Technicians.

To meet this need, the School of Aviation is currently developing curriculum which is intended to bridge the gap between the requirements for the Aircraft Maintenance Engineer working on Small and Large Aircraft and the requirements for working within the Electronics (Avionics) specialty.

Students who have recently graduated from the Aviation Technician - Aircraft Maintenance Program at Confederation College are eligible for this program. Pending approval from Transport Canada, graduates will comply with the requirements for either the “M” or “E” category AME licence, depending on actual work experience gained in the industry.

**Accreditation**

Pending approval from Transport Canada, this program will be accredited in the same manner as the Aviation Technician - Aircraft Maintenance Program (see Aviation Technician - Aircraft Maintenance).

**Employment Opportunities**

In addition to the opportunities for the Aviation Technician - Aircraft Maintenance Program graduate, the Avionics Technician Program graduate will be able to add privileges normally reserved for the Avionics specialist. The Avionics Technician graduate may also choose to become an Avionics specialist and by bringing more aircraft maintenance training than is required for the “E” licence, employment opportunities are enhanced there as well.

**Admission Requirements**

1. Applicants must be recent graduates of an Aviation Technician - Aircraft Maintenance program.

**Selection Criteria**

For additional information on selection criteria and requirements see page 10. Applicants with disabilities, please refer to page 9.

**Curriculum is currently being developed for this new program.**

Approximately 60% of the time is devoted to practical and 40% to theory in the following subject areas:

- Standard Wiring Practices
- Circuit Component Analysis
- Digital Electronics Theory
- Analog/Digital Components Shop
- Aircraft Instrumentation and Servicing Shop
- Radio Subsystem Theory
- Communications Systems Advanced Theory
- Communications Line Maintenance Shop
- Communications Radio Bench Shop
- Navigation Systems Advanced Theory
- Navigation Line Maintenance Shop
- Navigation Equipment Bench Shop
- Pulse Radar Theory
- Pulse Radar Bench Shop
- Large Aircraft Systems and Autoflight Theory
- Advanced Avionics Systems Theory
- Advanced Avionics Line Maintenance Shop
Architectural Technology

3-year, Ontario College Advanced Diploma Program (0308)

The Architectural Technologist is a vital member of the building team in the construction industry. The technologist is trained to participate in all phases of the development of a building project.

Architects, engineers, contractors and other members of the building industry have indicated a definite need for trained technical personnel, such as the Architectural Technologist, to assist them in meeting the continuing demands of construction in today's building industry.

Applicants to this Program should note that Civil Engineering Technology and Architectural Technology Programs share a common first year. Subsequent semesters, however, are not common and further study leads to specialization.

Architectural Technology graduates will have broad knowledge of building construction with design ability in the architectural and structural disciplines, working drawing production, computer applications, building specifications and codes. The curriculum consists of construction methods and architectural design techniques, production of presentation and construction drawings including structural, electrical and mechanical building systems. Emphasis is placed on modern construction practices conforming to current building codes.

Computer applications are introduced in the first semester and applied to construction management, surveying, structural design, computer assisted drafting, architectural design, mechanical and electrical services. The development of computer skills is integral to the Architectural program ensuring that students become proficient in the use of the computer as a tool of the industry. This enables the graduates to be of immediate value to employers and encourages them to achieve the maximum level of their academic ability.

Building projects during the three years will cover wood frame construction, masonry, steel, concrete and composite construction.

Employment Opportunities

Skills and knowledge acquired in this program will enable the graduate to pursue career opportunities in the construction industry as an Architectural or Engineering Assistant, Project Manager, Computer Aided Draftsperson, Field Supervisor, Specification Writer, Model Maker, Estimator, Clerk of Works, Inspector, Laboratory Assistant, Systems Representative, and many other related positions.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:
Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M Functions
or Grade 12 MAP4C College and Apprenticeship Mathematics

All students will be assessed to determine their math placement. Assessment will determine whether a student will be placed in MA 135 or math enhancement courses.

Students who do not meet the entrance requirements are encouraged to apply for the Pre-Technology program to facilitate success in their Technology path.
**First semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 125 Construction Materials &amp; Methods</td>
<td>3</td>
</tr>
<tr>
<td>CE 130 Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CE 140 Basic Drafting</td>
<td>3</td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>MA 135 Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>ST 110 Statics I</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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**Second semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>CE 240 Construction Drawing</td>
<td>3</td>
</tr>
<tr>
<td>CS 219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>ET 202 Professionals in Training</td>
<td>3</td>
</tr>
<tr>
<td>ET 206 Introduction to Auto Cad</td>
<td>3</td>
</tr>
<tr>
<td>MA 235 Mathematics II</td>
<td>3</td>
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<tr>
<td>ST 204 Statics II</td>
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<tr>
<td><strong>General Education Elective</strong></td>
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**Third semester**

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<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AT 300 Architectural Drafting &amp; Design (Residential)</td>
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<tr>
<td>AT 301 Presentation Techniques (Hand Drawn)</td>
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<tr>
<td>AT 302 Materials &amp; Methods II</td>
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</tr>
<tr>
<td>AT 303 Ontario Building Code I</td>
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<tr>
<td>AT 304 Architectural Design I</td>
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<tr>
<td>AT 305 Introduction to REVIT</td>
<td>3</td>
</tr>
<tr>
<td>CE 306 Quantity Surveying &amp; Estimating</td>
<td>3</td>
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<tr>
<td>ST 310 Strength of Materials</td>
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**Fourth semester**

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<tr>
<td>AT 303 Ontario Building Code II</td>
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<tr>
<td>AT 402 Architectural Project Lab</td>
<td>4</td>
</tr>
<tr>
<td>AT 408 Architectural Design II</td>
<td>3</td>
</tr>
<tr>
<td>AT 410 Mechanical &amp; Electrical Systems Residential</td>
<td>3</td>
</tr>
<tr>
<td>AT 412 History of Canadian Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CE 401* Work Placement</td>
<td>3</td>
</tr>
<tr>
<td>CM 408 Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>ST 420 Structural Design Concrete</td>
<td>3</td>
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<tr>
<td>ST 425 Structural Design Steel</td>
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<td><strong>General Education Elective</strong></td>
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**Fifth semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AT 501 Architectural Lab II</td>
<td>4</td>
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<tr>
<td>AT 503 Architectural Design III</td>
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<tr>
<td>AT 505 Working Drawing Detailing</td>
<td>3</td>
</tr>
<tr>
<td>ST 505 Steel Detailing</td>
<td>3</td>
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<tr>
<td>ST 507 Wood Design</td>
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**Sixth semester**

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<tbody>
<tr>
<td>AT 600 Interior Design</td>
<td>3</td>
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<tr>
<td>AT 602 Mechanical &amp; Electrical Commercial</td>
<td>3</td>
</tr>
<tr>
<td>AT 604 Project Lab III</td>
<td>3</td>
</tr>
<tr>
<td>AT 606 Renovations &amp; Restoration</td>
<td>3</td>
</tr>
<tr>
<td>AT 608 Contract,Admin/Specifications</td>
<td>3</td>
</tr>
<tr>
<td>AT 610 Estimating II Commercial Project Lab</td>
<td>3</td>
</tr>
<tr>
<td>ET 608 Law &amp; Ethics</td>
<td>3</td>
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<tr>
<td>ST 628 Structural Project Laboratory</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Civil Engineering Technology

3-year, Ontario College Advanced Diploma Program (0321)

The field of Civil Engineering Technology plays a key role in the health, safety and economic well-being of our communities. Graduates of our program participate in the design, construction and operation of water distribution, wastewater collection and treatment systems, road and railway systems, and buildings for residential, commercial and industrial uses.

A qualified Civil Engineering Technologist will find employment opportunities in facility planning and design, cost estimating and control, and construction inspection and management for new capital projects. Once the construction is completed, technologists are responsible for the effective management of the finished product to ensure services to the public are reliable and maintained within tight budgets.

Employment Opportunities

Employment opportunities in these fields are available locally, regionally and around the world. Graduates of our program will find entry level opportunities with consultants, contractors and government at the municipal, provincial and federal levels. With experience, they can expect to move on to management positions within these organizations.

The demand for qualified technologists is expected to increase steadily. Existing infrastructure in Canada has aged to the point that extensive repair is required. The challenge associated with this work is that often it must be carried out while maintaining service to the public. At the same time, new construction activities continue to provide on-going employment opportunities.

At Confederation College we expend great effort with respect to keeping our program current with or ahead of the technology used in the field. We are continually working to upgrade facilities for computerized analysis, design and drafting as well as electronic surveying used for design and construction. Our objective is to produce graduates who will lead the implementation of new technologies in the field. By doing so, they will contribute to the challenges of both maintaining and expanding civil infrastructure.

Career categories include positions such as Surveyor, Drafter, Designer, Lab Technician, QA/QC Inspector, Estimator, Project Manager, Site Supervisor, Public Works Administrator, Roads Supervisor or Sewer and Water Supervisor.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:
Grade 12 MCT4C Mathematics for College Technology or Grade 11 MCF3M Functions or Grade 12 MAP4C College and Apprenticeship Mathematics

All students will be assessed to determine a recommendation for a preferred math stream.

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology program to facilitate success in their Technology path.
# Civil Engineering Technology

### First semester

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 125 Construction Materials &amp; Methods</td>
<td>3</td>
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<tr>
<td>CE 130 Surveying</td>
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<td>CE 140 Basic Drafting</td>
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<td>MC 155 Microsoft Office 2007 Applications</td>
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<tr>
<td>ST 110 Statics I</td>
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### Second semester

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<tr>
<td>CE 208 Surveying II (Spring Term)</td>
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### Third semester

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<th>Course Number / Title</th>
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<tbody>
<tr>
<td>CE 303 Heavy Construction</td>
<td>3</td>
</tr>
<tr>
<td>CE 306 Quantity Surveying &amp; Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CE 307 Computer Applications in Civil Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CI 301 Surveying III</td>
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</tr>
<tr>
<td>CI 307 Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CI 313 Soils I</td>
<td>3</td>
</tr>
<tr>
<td>ST 310 Strength of Materials</td>
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<tr>
<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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### Fourth semester

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<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CE 402 Materials Testing</td>
<td>3</td>
</tr>
<tr>
<td>CI 402 Highways I</td>
<td>3</td>
</tr>
<tr>
<td>CI 404 Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>CI 413 Soils II</td>
<td>3</td>
</tr>
<tr>
<td>CM 408 Construction Management</td>
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<tr>
<td>ST 404 Structural Analysis</td>
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<tr>
<td>ST 420 Structural Design Concrete</td>
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<tr>
<td>ST 425 Structural Design Steel</td>
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### Fifth semester

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<th>Course Number / Title</th>
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<tbody>
<tr>
<td>CI 503 Environmental I</td>
<td>3</td>
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<tr>
<td>CI 509 Highways II</td>
<td>3</td>
</tr>
<tr>
<td>CI 511 GIS</td>
<td>3</td>
</tr>
<tr>
<td>ET 505 Data Management &amp; Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>ST 505 Structural Detailing &amp; Inspection</td>
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<td>ST 507 Wood Design</td>
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<td>General Education Elective</td>
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<tr>
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<tbody>
<tr>
<td>CI 600 Municipal Design</td>
<td>3</td>
</tr>
<tr>
<td>CI 602 Municipal Project, Specifications &amp; Contracts</td>
<td>3</td>
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<tr>
<td>CI 606 Asset Management</td>
<td>3</td>
</tr>
<tr>
<td>CI 616 Environmental II</td>
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<tr>
<td>CI 618 Foundations</td>
<td>3</td>
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<tr>
<td>ET 608 Law &amp; Ethics</td>
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<td>ST 628 Structural Project</td>
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<td><strong>Total</strong></td>
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</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
Electrical Engineering Technology - Computer Control

3-year, Co-op, Ontario College Advanced Diploma Program (0389)

In response to industries need for skilled technologists familiar with today's digital power and control equipment, Confederation College has redesigned the Electronics Engineering Technology - Computer Control program. This three-year diploma program provides the student with an advanced knowledge of electrical/electronic/computer/instrumentation analysis and design tools necessary to function as a technologist in today's industrial environment.

While traditional electrical theory and applications are covered, special emphasis is placed on computerized electronic control applications using state of the art DCS, PLC and drive systems. Traditional operator interface systems as well as today's leading panel and PC based SCADA/HMI packages are studied, with a design philosophy on safety. The student will gain an in depth knowledge of today's industrial device communications and networking required to design/analyze and implement new and existing systems.

The first year of the program is common with the Instrumentation Engineering Technician and Electronics Engineering Technician - Computers programs. This gives the students the opportunity to remain in the technician program should they so desire. Technology students entering 5th semester qualify to receive the Two Year Electronics Engineering Technician Diploma. The program stresses the technical skills and practical applications necessary to work independently and with others as a productive member of the technical team.

The program consists of six academic semesters and two sixteen-week co-op placement terms (optional). After the second academic semester, students may be eligible to participate in the first co-op work term. Co-op provides the students with hands-on experience above and beyond what traditional classroom instruction and laboratories can provide.

Qualified technologist graduates can apply to Lakehead University and enter into the third year of the Electrical Engineering Program. After two years of study, they can graduate with a Bachelor of Engineering Degree, Electrical.

Employment Opportunities

Employment opportunities exist in a wide variety of industrial settings involving design, production and maintenance of electrical/electronic and instrumentation systems. Positions may occur with automation systems integrators, power generation, computer service, pulp and paper, automotive production, petrochemical steel manufacturers, information technology, parts manufacturers and manufacturer's representatives.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:
Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M Functions
or Grade 12 MAP4C College and Apprenticeship Mathematics

All students will be assessed to determine their math placement. Assessment will determine whether a student would be placed in MA 131 or math enhancement courses.

Students who do not meet the entrance requirements are encouraged to apply for the Pre-Technology program to facilitate success in their Technology path.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>EL 161 Electrical I</td>
<td>4</td>
</tr>
<tr>
<td>EL 165 Digital I</td>
<td>3</td>
</tr>
<tr>
<td>EL 166 Computer Systems - COMPTIA A+</td>
<td>3</td>
</tr>
<tr>
<td>EL 167 Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>MA 131 Mathematics I</td>
<td>4</td>
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<td>MC 155 Microsoft Office 2007 Applications</td>
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Second semester

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<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>EL 227 Electrical II</td>
<td>4</td>
</tr>
<tr>
<td>EL 228 Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>EL 229 Industrial Drawings &amp; Specifications</td>
<td>3</td>
</tr>
<tr>
<td>MA 231 Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>PH 210 Physics</td>
<td>3</td>
</tr>
<tr>
<td>TC 235 Computer Software I - Visual Basic</td>
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<td>General Education Elective</td>
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<tr>
<td><strong>Total</strong></td>
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### CO-OP (following Second semester)

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>EL 238 Co-op Work Placement (16 Weeks)</td>
<td>640</td>
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<tr>
<td>EL 239 Co-op Work Placement Review</td>
<td>2</td>
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### Third semester

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<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EL 304 Digital II</td>
<td>3</td>
</tr>
<tr>
<td>EL 305 Industrial Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>EL 306 Telecommunications</td>
<td>5</td>
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<tr>
<td>EL 307 Industrial Data Networks</td>
<td>3</td>
</tr>
<tr>
<td>MA 331 Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>TC 335 Computer Software - C++ Level I</td>
<td>3</td>
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<td><strong>Total</strong></td>
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### Fourth semester

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<tbody>
<tr>
<td>EL 405 Industrial Electronics II</td>
<td>4</td>
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<td>EL 406 Embedded Control Systems I</td>
<td>3</td>
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<tr>
<td>EL 407 Wide Area Networks III</td>
<td>4</td>
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<tr>
<td>EL 408 Networks II - COMPTIA NET +</td>
<td>3</td>
</tr>
<tr>
<td>EL 409 Networks II Lab - COMPTIA NET +</td>
<td>3</td>
</tr>
<tr>
<td>EL 431 Automation Control Systems I</td>
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<tr>
<td>MA 431 Mathematics IV</td>
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<td>TC 435 Computer Software III - C++ Level II</td>
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### CO-OP (following Fourth semester)

<table>
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<tr>
<td>EL 438 Co-op Work Placement (16 Weeks)</td>
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<td>EL 439 Co-op Work Placement Review</td>
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### Fifth semester

<table>
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<tbody>
<tr>
<td>EL 505 Computer Control Software</td>
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<tr>
<td>EL 506 Industrial Power Systems</td>
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<td>EL 507 Embedded Control Systems II Lab</td>
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<tr>
<td>EL 508 Embedded Control Systems II Theory</td>
<td>3</td>
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<tr>
<td>EL 509 Automation Control Systems II</td>
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<td>MA 531 Mathematics V</td>
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### Sixth semester

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<tr>
<td>EL 605 Process Control Systems</td>
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<tr>
<td>EL 606 Process Control Systems Lab</td>
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<tr>
<td>EL 607 Drive Control Systems</td>
<td>3</td>
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<tr>
<td>EL 608 System Integration</td>
<td>3</td>
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<tr>
<td>EL 609 Computer Systems II</td>
<td>4</td>
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<tr>
<td>EL 610 HMI/SCADA systems</td>
<td>3</td>
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<tr>
<td>MA 631 Mathematics VI</td>
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### CO-OP (following Sixth semester)

<table>
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<td>EL 638 Co-op Work Placement (16 Weeks)</td>
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</tbody>
</table>

* Communication Pathways

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---

On completion of specific college courses, students will have the opportunity to write for Microsoft Certification.
School of Engineering Technology
Electronics & Instrumentation Programs

Choose YOUR Pathway In, Through and Beyond.

High School

Electronics Engineering Technician
Canadian Navy Subsidized Education (option).
- I was paid a wage to sit in class and learn
- 1st Year $31,000.00 + Tuition + Books
- 2nd Year $37,000.00 + Tuition + Books
- I graduated and have a recession proof career ($70k+/year)
- I only have to serve 3 years with the Canadian Navy

Path Beyond

Instrumentation & Control Technician Apprentice
Apprentice Trade Code 447A
My 2 years at the college are directly applied to an apprenticeship.
- I am an Instrumentation Control Technician Apprentice registered with the Ministry
- After 3 years of work I could be a Journeyman

Path Through & Beyond

Lakehead University

I chose the Confederation College Path to university and I have:
- 2 College Diplomas AND
- 2 Co-Op Terms of Job Experience
- 2 years as a Registered Apprentice
- a University Electrical Engineering Degree

2 College Diplomas PLUS an Electrical Engineering Degree
College Tuition $2670.00/yr. X 3 Yrs. = $8,010.00
University Tuition $6124.73/yr. X 2 yrs. = $12,249.46

College Path to University – 5 Year Tuition Total = $20,254.46

Direct to University Path – 4 Years 1 Degree Tuition Total = $24,498.92

For more Information contact
Steve Cormier, P.Eng. (807) 475-6244
Email: sheormic@confederationc.on.ca

OR
Terry Daniels (807) 475-6128
Email: daniels@confederationc.on.ca
In response to the continued growth in the computer industry and to address a need for skilled technicians, Confederation College has redesigned the Electronics Engineering Technician Program. Year one provides a solid foundation in electronics and computer fundamentals. Students now have the option of a new specialization in Year Two - Computers. Computer specialists provide technical solutions and support to local and wide area networks. Graduates should be able to work with a complete range of active data; install, interconnect, configure, implement, and troubleshoot network systems, create and maintain documentation, be proficient with hardware wiring centres, routers, voice network hardware, and software PBX's and apply networking solutions in a client-server environment. The program offers students the opportunity to pursue examinations that can lead to Microsoft Certified Professional (MCP) certification and COMPTIA A+ and Net+. Students can also transfer into the Electrical Engineering Technology program.

**Employment Opportunities**

The program will prepare graduates for employment in a wide range of businesses and industries that utilize information networks. For example, companies that provide computer system installations, industries and institutions that maintain and operate their own systems and communications companies. Opportunities also exist for entrepreneurs in the areas of service and consulting.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
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Note: A $307.52 fee will be charged for student materials fee.

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<tr>
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**Second semester**

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<td>TC 235 Computer Software I</td>
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<td>EL 307 Industrial Data Networks</td>
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<tr>
<td>MA 331 Mathematics III</td>
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*Communication Pathways

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The careful management of our lands, waters, forests and other resources is a vital responsibility of which we are becoming increasingly aware. All of us, in more ways than we often recognize, have a direct influence on the well-being of Northwestern Ontario, our country and our planet. The preservation of the vast physical wealth of our region and earth is of great importance today if our children and grandchildren are to inherit its wonders tomorrow. As we become conscious of our own impact upon the natural environment, we begin to take the first steps on the path towards sustainable lifestyles, communities and economies.

The need for qualified Environmental Technicians has been identified by non-governmental agencies, industry, various levels of government and municipal organizations. The need for technically competent personnel is expected to grow considerably in the coming years.

The Environmental Technician program at Confederation College trains graduates in a multi-faceted approach to understanding how to effectively manage the environment, both natural and man-made. Graduates of this program are able to communicate and work co-operatively with those from other sectors & disciplines. Our graduates have had a chance to explore difficult environmental issues as well as to learn hands-on tools for assessing ecosystems. The curriculum for the Environmental Technician program was developed in consultation with representatives from industry and agencies based on current practices, our own experience in the field as well as anticipated needs and technological advances, and is updated regularly.

Our graduates will have the expertise to confidently and competently compete for environmental career opportunities locally, provincially, nationally and globally.

**Employment Opportunities**

The graduates of the Environmental Technician Program may find employment as an Environmental Technician with consulting companies, the forest industry, mining companies, analytical laboratories, hydro-electric generating companies, water and waste treatment facilities, various kinds and levels of government agencies, health and safety organizations, outdoor educational centres and non-governmental environmental organizations. Employment entry level can be typically as an Environmental Technician, Laboratory Technician, Water and Air Quality Technician, Occupational Health & Safety Officer, or Environmental Abatement Officer.

Career Categories include prospective positions such as Laboratory Technician, Water and Air Quality Technician, Environmental Technician, Occupational Health and Safety Officer, Environmental Abatement Officer, Operator-Water Wastewater Treatment Operator, Environmental, Health and Safety Coordinator, “Permit To Take Water “Coordinator, Fisheries Technician, Superintendent Environment, Sustainability Manager (Environment and Public Relations), Drinking Water Inspector, Contaminated Site Assessment and Remediation Officer, Hazardous Waste Coordinator, Solid Waste Technician, Topographical Assessment Technician, or Environmental Management Systems Consultant.

For further information regarding employment in the environmental field, contact Confederation College and/or consult the Environmental Careers Organization Canada at [www.eco.ca](http://www.eco.ca).

**Students in the Community - Co-op Work Placements and Employment Opportunities**

Students have the option of registering for a 16-week co-op placement in the summer either between first and second year or at the end of second year. The College has a co-op coordinator who facilitates placement with an employer in the environmental or ecosystem management sector. The co-op experience provides participants with valuable on-the-job training and networking opportunities as well as summer employment. Students may be required to relocate for the summer to complete an appropriate placement. Some placements may require living in the field or at an industrial site for extended periods. Occasionally students take an unpaid placement to gain experience and contacts with a particular employer.

Opportunities with the following organizations have been available:

- Environment Canada
- Ontario Ministry of the Environment
- Placerdome Inc
- Ontario Clean Water Agency (OCWA)
- City of Thunder Bay
- ALS Laboratories

**Environmental Technician**

2-year, Co-op, Ontario College Diploma Program (0387) (Four Academic Semesters, One optional Co-op Placement)
Environmental Technician

Additional Certification

- **Water and Wastewater Operator-in-Training (OIT) Certification** - Students will be prepared for and have the option of writing the Ontario Ministry of the Environment Operator-in-Training (OIT) exam. Those successful in passing this Provincial certification exam will be able to work as operators in either water or wastewater facilities.

- **Entry-Level Drinking Water in Training Operator Course** - Students who successfully complete the program will have met the requirements of the Ministry of the Environment’s Entry-Level Course for Drinking Water Operators. This course is delivered by Confederation College in partnership with the Ministry of the Environment and the Walkerton Clean Water Centre. The Provincial course has been integrated into EI324, an existing fourth semester course on Water and Wastewater Treatment. Successful students will receive their Provincial certification following graduation from the Environmental Technician Program.

- **First Aid** (additional fee; required for graduation from the program)

- **Ontario Association of Certified Engineering Technicians and Technologists (OACETT) possible certification**

- **Lakehead Search & Rescue training** (recommended)

- **Toastmasters International** (recommended)

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance

And Courses Recommended:
Grade 12 College or University preparation English, Chemistry & Biology

The program starts with a 2-week field school at the beginning of both of the fall semesters. Students must be prepared for long days outside during field school.

The Environmental Technician program at Confederation College is clustered with the Forest Ecosystem Management Technician Program. It is possible to complete both of these 2-week diplomas in the three years, if the co-op option is completed , either at the end of the first or second year.

All students will be assessed to determine their mathematics and communications placement. Students who are identified as needing extra time to complete the first year math will be placed in MA 115 and MA 215, to be taken over the first two semesters, rather than MA 131. Students who require extra time to complete the introductory communications requirement will take a communications course with a few more contact hours a week instead of CS 007.

Students who do not meet the entrance requirements, or who want to earn some credits toward the Environmental Technician Diploma while exploring their career options in Technology are encouraged to apply for the Pre-Technology Program.
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR 180 Fall Field School (2 weeks)</td>
<td></td>
</tr>
<tr>
<td>CE 130 Surveying</td>
<td></td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>NR 100 Natural Resource Measurements</td>
<td>4</td>
</tr>
<tr>
<td>NR 110 Tree &amp; Shrub Identification</td>
<td>4</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
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<tr>
<td>MA 115** Pre-Technology Mathematics 1</td>
<td>4</td>
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<td><strong>Total</strong></td>
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### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>NR 213 Geographical Information Systems I</td>
<td>3</td>
</tr>
<tr>
<td>NR 215 Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>NR 216 Introductory Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MA 215* Pre-Technology Mathematics II</td>
<td>4</td>
</tr>
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<td><strong>Total</strong></td>
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</table>

### Optional CO-OP (following Second or Fourth semester)

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EI 351 Environmental Technician Co-op</td>
<td>640</td>
</tr>
<tr>
<td>Work Placement</td>
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<td><strong>Total</strong></td>
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### Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EI 320 Fall Field School (2 weeks)</td>
<td></td>
</tr>
<tr>
<td>EI 321 Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>EI 322 Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>EI 323 Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>EI 326 Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>EI 423 Environmental Audits</td>
<td>3</td>
</tr>
<tr>
<td>EI 425 Advanced Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE 060 Supervisory Skills &amp; Conflict Resolution</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
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</table>

### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EI 324 Water &amp; Waste Water Treatment</td>
<td>4</td>
</tr>
<tr>
<td>EI 421 Environmental Regulations</td>
<td>3</td>
</tr>
<tr>
<td>EI 422 Environment, Ethics &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>EI 424 Industrial Environmental Technology</td>
<td>3</td>
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<tr>
<td>NR 427 Introductory Statistics for</td>
<td></td>
</tr>
<tr>
<td>Environmental Applications</td>
<td>3</td>
</tr>
<tr>
<td>GE 059 People &amp; the Forest</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.

** Students are assessed at the beginning of the semester for their mathematics skills. Students may test out of MA 115 and MA 215 into a one-semester math, MA 131, offered second semester.
Forest Ecosystem Management Technician

2-year, Ontario College Diploma Program (0390)
(Four Academic Semesters, Two Co-op Work Placements)

In the two-year Forest Ecosystem Management Technician (Co-op) Program, you will acquire the theoretical knowledge and technical skills needed to work effectively in the forest and environmental sectors. You will be prepared for a technically competent entry level position in the areas of forest harvesting, forest resource conservation and protection, forest management, silviculture, fish and wildlife, research support, recreation, project development with Aboriginal communities, community economic development, and eco and adventure tourism.

A unique feature of the program is the integration of aboriginal approaches to forest & land resource development, in addition to a business/entrepreneurial focus & applied delivery.

By enrolling in the Forest Ecosystem Management Technician Program, you will have an opportunity to increase your credentials and employability, by taking certification courses such as: S100 forest fire fighting, first aid, WHMIS, and chain saw awareness.

To learn more about the social, economic, and ecological role that forestry plays in both the North and around the world, visit Lakehead University's BorealForest.org site.

Employment Opportunities

Graduates may be employed in the following occupations: forest technician, forest survey technician, resource technician, forest fire technician, cruising technician, resource officer, forest inventory, conservation technician, scaler, logging, silviculture technician, contractor, equipment owner/operator, equipment sales. Potential employment opportunities in this field are excellent due to an aging workforce and looming high retirement rates in the industry.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Courses Recommended: English, Chemistry and Biology - College or University preparation

Students who do not meet the entrance requirements are encouraged to apply, as all students will be assessed to determine their math placement. Assessment will determine whether a student would be placed in MA 131 or math enhancement courses. The assessment results may indicate that a student should be directed towards the Pre-Technology Program to facilitate success in their Technology path.

Other Considerations

The nature of training and working in this occupation usually requires considerable physical, stamina and agility; a relatively high degree of eye and hand co-ordination; and visual acuity of distance, depth perception and field of vision. Exposure to temperature extremes, dampness, noise, vibration, dust, insects and other hazards, require the use of safety equipment and clothing.
**First semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>NR 100 Natural Resource Measurements</td>
<td>4</td>
</tr>
<tr>
<td>NR 110 Tree &amp; Shrub Identification</td>
<td>4</td>
</tr>
<tr>
<td>FW 120 Forest Mechanization I</td>
<td>4</td>
</tr>
<tr>
<td>NR 130 Soils &amp; Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>FW 150 Wood Products &amp; Utilization</td>
<td>3</td>
</tr>
<tr>
<td>NR 180 Fall Field School (2 weeks)</td>
<td></td>
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<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>MA 115** Pre-Technology Mathematics I</td>
<td>4</td>
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<td><strong>Total</strong></td>
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**Second semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>NR 213 Geographical Information Systems I</td>
<td>3</td>
</tr>
<tr>
<td>FW 214 Forest Operations</td>
<td>4</td>
</tr>
<tr>
<td>NR 215 Forest Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>NR 216 Introductory Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MA 215 Pre-Technology Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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**Co-op (following Second Semester)**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FW 355 Forest Ecosystem Management Technician Co-op Placement I (16 weeks)</td>
<td>640</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>640</strong></td>
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</table>

**Third semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 130 Surveying</td>
<td>3</td>
</tr>
<tr>
<td>FW 400 Forest Inventory</td>
<td>3</td>
</tr>
<tr>
<td>FW 410 Photogrammetry &amp; Mapping</td>
<td>3</td>
</tr>
<tr>
<td>FW 411 Geographical Informations Systems II</td>
<td>3</td>
</tr>
<tr>
<td>FW 412 Silviculture</td>
<td>3</td>
</tr>
<tr>
<td>FW 414 Forest Pathology/Entomology</td>
<td>3</td>
</tr>
<tr>
<td>FW 415 Fall Field School (2 weeks)</td>
<td></td>
</tr>
<tr>
<td>GE 060 Supervisory Skills &amp; Conflict Resolution in Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Fourth semester**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW 510 Fish &amp; Wildlife Management</td>
<td>3</td>
</tr>
<tr>
<td>FW 511 Forest Fire Management</td>
<td>4</td>
</tr>
<tr>
<td>FW 512 Forest Management Planning</td>
<td>5</td>
</tr>
<tr>
<td>FW 513 Forest Business Management</td>
<td>3</td>
</tr>
<tr>
<td>GE 059 People &amp; the Forest</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
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</tbody>
</table>

**Co-op (following Fourth Semester)**

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW 655 Forest Ecosystem Management Technician Co-op Placement II (16 weeks)</td>
<td>640</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>640</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

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** Students are assessed at the beginning of the semester for their mathematics skills. Students may test out of MA 115 and MA 215 into a one-semester math, MA 131, offered second semester.
**Instrumentation Engineering Technician**

2-year + optional Co-op, Ontario College Diploma Program (0334)

Instrumentation measurement and control principles, as applied to pneumatic, electronic and fieldbus based instruments, will be studied providing the student with a sound background in process automation.

Practical experience will be gained in a modern, well-equipped laboratory designed to emulate common control systems found in the industry. This lab features functioning processes employing pneumatic as well as modern microprocessor based electronic control equipment such as PLC's, Distributed Control Systems, and field networks.

The program consists of four academic semesters and two sixteen-week co-op placement terms (optional). After the second academic semester, students may be eligible to participate in the first co-op work term. The second co-op term is scheduled after the fourth academic semester. Co-op provides the students with hands-on experience above and beyond what traditional classroom instruction and laboratories can provide.

Students are encouraged to apply to the Instrumentation Co-op Diploma Apprenticeship Program. For more information, see www.confederationc.on.ca/programs.

Graduate Instrumentation Engineering technicians are invited to apply for the 3rd year of the Electrical Engineering Technology Program at Confederation College.

**Employment Opportunities**

Instrumentation technicians commission, install, calibrate, maintain and repair complex measurement and control systems used in a variety of process control applications. Opportunities exist in instrument departments in the pulp and paper, mining, chemical, petroleum, steel, manufacturing industries, fresh water & waste water management, grain trade, nuclear and thermal generation, biomedical equipment manufacturers, sales and technical service of instrumentation equipment.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

**And Courses Required:**
- Grade 12 MCT4C Mathematics for College Technology
- or Grade 11 MCF3M Functions
- or Grade 12 MAP4C College and Apprenticeship Mathematics

All students will be assessed to determine their math placement. Assessment will determine whether a student would be placed in MA 131 or math enhancement courses.

Students who do not meet the entrance requirements are encouraged to apply for the Pre-Technology program to facilitate success in their Technology path.

Note: A $307.52 fee will be charged for student materials fee.
## First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>4</td>
</tr>
<tr>
<td>EL 161 Electrical I</td>
<td>4</td>
</tr>
<tr>
<td>EL 165 Digital I</td>
<td>3</td>
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<tr>
<td>EL 166 Computer Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EL 167 Electronics I</td>
<td>3</td>
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<tr>
<td>MA 131 Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
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<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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## Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 219 Communications for Technology</td>
<td>3</td>
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<tr>
<td>EL 227 Electrical II</td>
<td>4</td>
</tr>
<tr>
<td>EL 228 Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>EL 229 Industrial Drawings &amp; Specifications</td>
<td>3</td>
</tr>
<tr>
<td>MA 231 Mathematics II</td>
<td>3</td>
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<tr>
<td>PH 210 Physics</td>
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<tr>
<td>TC 235 Computer Software 1 - Visual Basic</td>
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<td>General Education Elective</td>
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## Co-op following semester 2

<table>
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<tr>
<th>Course Number / Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IT 305 Co-op Work Placement (16 weeks)</td>
<td>640</td>
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<tr>
<td>IT 306 Co-op Work Placement Review</td>
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<td><strong>Total</strong></td>
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## Third semester

<table>
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<th>Course Number/ Title</th>
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</thead>
<tbody>
<tr>
<td>EL 304 Digital II</td>
<td>3</td>
</tr>
<tr>
<td>EL 305 Industrial Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>IT 345 Field Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>IT 346 Practical Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>MA 331 Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>TC 335 Computer Software - C++ Level I</td>
<td>3</td>
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<tr>
<td>General Education Elective</td>
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<td><strong>Total</strong></td>
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## Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
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<tbody>
<tr>
<td>EL 307 Industrial Data Networks</td>
<td>3</td>
</tr>
<tr>
<td>EL 405 Industrial Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>EL 406 Embedded Control Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EL 431 Automation Control Systems I</td>
<td>3</td>
</tr>
<tr>
<td>IT 445 Process Control Applications</td>
<td>3</td>
</tr>
<tr>
<td>IT 446 Practical Instrumentation II</td>
<td>4</td>
</tr>
<tr>
<td>TC 435 Computer Software - C++ Level II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

* Communication Pathways

Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS 040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS 117 Communication Strategies or CS 007 Persuasive Writing.
The Mining Techniques Program at Confederation College is a one-year Ontario College Certificate Program with unique opportunities for graduates. Graduates of the Mining Techniques program may choose to enter the workforce after receiving their one-year College Certificate. Alternatively, graduates may choose to enter directly into the second year of the two- and three-year mining technician and technologist programs at Cambrian College in Sudbury or into the second year of the mining technician program at the Haileybury Campus of Northern College. An articulation agreement among the three Ontario colleges provides for the full credit recognition of prior learning.

What can you expect to be able to do when you graduate from the Mining Techniques program? The following graduate learning outcomes answer this question.

- Utilize a knowledge of open-pit and underground mining activities, processes, and methods; types of ore bodies; map interpretation; and basic geology to assist in planning and development.
- Use CAD software to produce industry-standard technical drawings.
- Perform surveys appropriate to both mining and civil needs.
- Utilize computer software to produce technical reports, presentations, and calculations.
- Perform basic mathematical operations and solve mathematical problems related to the physics of mining.
- Utilize communication skills to effectively communicate and respond to written, spoken, and visual messages.
- Interact with others in groups or teams in ways that contribute to effective working relationships and achievement of goals. Utilize an informed awareness and knowledge of the contemporary aboriginal context to guide personal behaviours and make decisions.

Employment Opportunities

The mining sector and related industries have always been among the highest paying sectors of the economy. Demand for workers in the mining industry is on the rise and long term forecasts show the demand will last.

Direct employment in the mining industry involves activities at the mine site, including underground work, office work, and field work. Employment with exploration companies typically involves outdoors and office work.

Opportunities for employment include such areas as mining surveying; mining planning; mineral extraction; technical drawing; industrial, geological, geophysical fieldwork; environmental control; assaying; process control; and technical sales.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:

Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M functions
or Grade 12 MAP4C College and Apprenticeship Mathematics

A four-module (MA022, MA023, MA024, MA025) is offered as a refresher mathematics course for those who may lack the required mathematics credits.

All students will be assessed to determine their mathematics placement. Assessment will determine whether students will be placed in MA131 or mathematics enhancement courses.

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology Program to facilitate success in their technology path.

First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS007 Persuasive Writing</td>
<td>3</td>
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<tr>
<td>MA131 Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MC155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>MN110 Surveying I</td>
<td>4</td>
</tr>
<tr>
<td>MN120 Geology I</td>
<td>4</td>
</tr>
<tr>
<td>MN130 Introduction to Mining</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>22</strong></td>
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</table>

Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>CD110 Computer Aided Drafting</td>
<td>2</td>
</tr>
<tr>
<td>MA231 Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MN210 Surveying II</td>
<td>5</td>
</tr>
<tr>
<td>MN220 Geology II</td>
<td>4</td>
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<tr>
<td>MN230 Mining Methods</td>
<td>4</td>
</tr>
<tr>
<td>SY180 Exploring Human Diversity</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>
Pre-Technology

1-year, Ontario College Certificate Program (0369)

The Pre-Technology program is designed as a transition year for high school graduates and mature students who wish to enhance their academic preparation prior to entering a college postsecondary techniques, technician or technology program.

The program is linked closely to the student’s eventual program of study and emphasizes the basic academic and technical skills that are necessary for success in future studies. It provides an opportunity for career exploration and improvement of study skills to round out the student's program of study.

The program will:

- improve access to technical programs for students lacking specific admission requirements (i.e. math, science and computers);
- provide the student with the academic preparation in mathematics, science and literacy necessary for further study in a techniques, technician or technology program;
- improve the student’s study skills necessary to succeed in a college program;
- provide an opportunity for career exploration in the field of technology and trades;
- broaden the student’s knowledge and understanding through practical lab experience in a variety of technical areas;
- provide the students with basic technical skills acquired through practical lab experience related to occupations in a variety of technical fields;
- encourage students to work with others, solve problems and communicate clearly as required in the workplace;
- create a climate of peer support through group activities.

The Pre-Technology Program offers two options in the second semester for individuals whose educational experience and vocational interests differ. The Technology option is for individuals who plan to enter Technician or Technology Programs. The Trades Skills Option is structured for individuals who plan to enter Techniques Programs commonly called Trades Programs. Because of equipment and facility restrictions, these options would be offered based on sufficient enrolment.

NEW for Fall 2009!

As a further pathway into the technology and trades programs, students may have the opportunity to take program-specific technical courses in place of some of the Technological Studies courses. In discussion with the program coordinator, courses may be chosen according to the student’s eventual technology and trades program. For students who are uncertain of their eventual program, it will be recommended that they take Technological Studies courses (TP 150, TP 155, TP 250 and TP 255).

Because of equipment and facility restrictions, these options would be offered based on sufficient enrolment.

For more information, please contact Janet Kostamo at 475-6109.

Employment Opportunities

The pre-technology program can lead to Educational Opportunities in programs such as

- Power Engineering Technician
- Motive Power Techniques
- Mechanical Techniques - Multiskilling
- Welding Techniques
- Instrumentation Engineering Technician Co-op
- Forestry Ecosystem Management Technician
- Environmental Technician
- Electronics Engineering Technician - Computers
- Electronics Engineering Technology - Control Systems
- Civil Engineering Technology
- Architectural Technology
- Aerospace Manufacturing Engineering Technician/Technology
- Aviation-Flight Management
- Aviation Technician - Aircraft Maintenance

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

Note: A $40.00 student fee for materials is required for student projects.
### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 113 Making The Grade</td>
<td>3</td>
</tr>
<tr>
<td>MA 115 Pre-Technology Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MC 120 Introductions to Computers I</td>
<td>2</td>
</tr>
<tr>
<td>SC 110 Pre-Technology Science I</td>
<td>3</td>
</tr>
<tr>
<td>TP 131 Communications I</td>
<td>3</td>
</tr>
<tr>
<td>TP 150 Technological Studies I</td>
<td>3</td>
</tr>
<tr>
<td>TP 155 Technological Studies II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

### Second semester - Trade Skills Option

<table>
<thead>
<tr>
<th>Course Number/Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX 232 Pre-Trades Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>IX 233 Pre-Trades Science</td>
<td>2</td>
</tr>
<tr>
<td>MC 220 Introduction to Computers II</td>
<td>2</td>
</tr>
<tr>
<td>TP 236 Writing Strategies - Communications II</td>
<td>4</td>
</tr>
<tr>
<td>TP 250 Technological Studies III</td>
<td>3</td>
</tr>
<tr>
<td>TP 255 Technological Studies IV</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

### Second semester - Technology Option

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 215 Pre-Technology Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>MC 220 Introduction to Computers II</td>
<td>2</td>
</tr>
<tr>
<td>SC 210 Pre-Technology Science II</td>
<td>3</td>
</tr>
<tr>
<td>TP 236 Writing Strategies - Communications II</td>
<td>4</td>
</tr>
<tr>
<td>TP 250 Technological Studies III</td>
<td>3</td>
</tr>
<tr>
<td>TP 255 Technological Studies IV</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>
Mechanical Technician - Industrial Maintenance

2-year, Ontario College Diploma Program (Pending Ministry Approval)

NOTE: This program is presently under renewal and is expected to have an intake for the 2010/2011 academic year.

Industry is experiencing a rapidly growing need for the expertise provided by the Mechanical Engineering Technician. This course of study will develop highly skilled personnel capable of meeting the constantly changing demands brought on by advancing technologies. The program design is broad based. It meets the basic outcomes particular to the millwright, machinist, and steam fitter trades, while meeting the additional requirements associated with an academic program presented at the technician level. Two optional co-op placements in industry are an integral part of the program.

Other related programs that may be of interest:

• Aerospace Manufacturing Engineering Technician (0311)
• Aerospace Manufacturing Engineering Technology (0312)
• Mechanical Techniques: Multi-Skillling (0376)

Employment Opportunities

Graduates may find employment with consulting engineering companies, pulp and paper industries, and government agencies. Anticipated entry-level employment includes apprenticeship in millwright, machinist, steam fitter trades, design drafting, mechanical sales, production operations, and hydraulics servicing.

Career Categories include prospective positions such as Mechanical Engineering, Technician, and Certified Trades such as Millwright, Welder, Machinist, Preventative Maintenance, Technician, Technical Sales, Mechanical Engineering, Maintenance Supervision, Mechanical Drafting / Design or Maintenance Planning

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:

Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M functions
or Grade 12 MAP4C College and Apprenticeship Mathematics

All students will be assessed to determine their math placement. Assessment will determine whether a student would be placed in MA 131 or math enhancement courses.

Students who do not meet the entrance requirements are encouraged to apply for the Pre-Technology program to facilitate success in their Technology path.

Note: A $100.00 student fee for materials is required for student projects.
### Mechanical Technician - Industrial Maintenance

#### First semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 117 Communication Strategies</td>
<td>3</td>
</tr>
<tr>
<td>MA 131 Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MC 155 Microsoft Office 2007 Applications</td>
<td>3</td>
</tr>
<tr>
<td>TM 107 Physics</td>
<td>3</td>
</tr>
<tr>
<td>TM 110 Engineering Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>TM 135 Machine Shop I</td>
<td>4</td>
</tr>
<tr>
<td>TM 160 Mechanical Maintenance I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 24

#### Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 110 Computer-Aided Design Drafting</td>
<td>2</td>
</tr>
<tr>
<td>CS 219 Communications for Technology</td>
<td>3</td>
</tr>
<tr>
<td>MA 231 Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>ST 210 Statics</td>
<td>3</td>
</tr>
<tr>
<td>TM 235 Machine Shop II</td>
<td>3</td>
</tr>
<tr>
<td>TM 245 Electrical Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>TM 260 Mechanical Maintenance II</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 23

#### Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM 301 Co-op Work Placement (16 weeks)</td>
<td>640</td>
</tr>
<tr>
<td>TM 302 Co-op Work Placement Review</td>
<td>2</td>
</tr>
</tbody>
</table>

Total: 642

#### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 331 Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>PH 213 Physics</td>
<td>3</td>
</tr>
<tr>
<td>TM 312 Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>TM 440 Power Transmission I</td>
<td>3</td>
</tr>
<tr>
<td>TM 460 Mechanical Maintenance III</td>
<td>4</td>
</tr>
<tr>
<td>TM 465 Welding Techniques</td>
<td>4</td>
</tr>
<tr>
<td>TM 530 Fluid Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 23

#### Fifth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 406 Quality in the Workplace</td>
<td>2</td>
</tr>
<tr>
<td>ST 430 Structural Design</td>
<td>2</td>
</tr>
<tr>
<td>TM 540 Power Transmission II</td>
<td>3</td>
</tr>
<tr>
<td>TM 545 Electrical/Electronic Controls</td>
<td>2</td>
</tr>
<tr>
<td>TM 560 Mechanical Maintenance IV</td>
<td>4</td>
</tr>
<tr>
<td>TM 565 Welding &amp; Fabrication II</td>
<td>4</td>
</tr>
<tr>
<td>TM 570 Production Management</td>
<td>2</td>
</tr>
<tr>
<td>TM 630 Fluid Power</td>
<td>3</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 24

#### Sixth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM 601 Co-op Work Placement (16 weeks)</td>
<td>640</td>
</tr>
<tr>
<td>TM 602 Co-op Work Placement Review</td>
<td>2</td>
</tr>
</tbody>
</table>

Total: 642
Rapid advancement of technological change alters lives around the world everyday. The understanding of technology must go hand-in-hand with the skills necessary for its application. The intent of the Multiskilling Program is to maximize the resources of a skilled workforce and enhance the career growth for individuals. The trend in industry today is towards multiskilling.

The first semester provides for the development of transferable skills and in the second semester, students specialize in an industrial/manufacturing stream. The third semester will incorporate methods that have been taught to fabricate projects in the shop. Classroom instruction is reinforced by practical demonstrations and relevant work applications.

The Multiskilling Program parallels the Ontario Basic and Intermediate Millwright Trades Apprenticeship Program. Graduates of the program may access a number of career occupations i.e., millwright, industrial mechanic, machinist, tool and die maker, pipe fitter, welder/fitter and sheet metal worker.

Employment Opportunities
Choice of occupations in the career track can provide challenging, well-paying occupations in pulp and paper, forest products, mining, manufacturing, transportation, bulk handling and other industries, plus service sector companies.

Career Categories include prospective positions such as Industrial Maintenance Mechanic, Industrial Millwright, Construction Millwright, Millwright-Machinist, Machinist, Welder-Fabricator, Carpenter, Pipe-fitter, Technical Sales, Industrial Sales or Industrial Draftsperson.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:
Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M functions
or Grade 12 MAP4C College and Apprenticeship Mathematics

Applicants who do not possess the Grade 12 Mathematics for College Technology course (or equivalent) might consider our Pre-Technology Program, which will provide the necessary preparation to enter a technology program.

Note: A $100.00 student fee for materials is required for student projects.
The Motive Power Techniques Programs afford students an excellent opportunity to participate in a common first semester Motive Power Program that will prepare them to choose a career in the Motive Power Field. The second semester is oriented towards a specific interest. The two options presently available are Automotive and Heavy Equipment.

The Automotive Service and Repair Program is designed to give students a firm background in the fundamental areas of the automotive transportation service industry. Students are involved in maintaining and repairing various vehicle systems such as electrical/electronics, fuels, brakes, gear trains steering and suspension on motor vehicles and light trucks. Support topics covering various ancillary courses such as Exploring Human Diversity, and Communication Strategies, are an integral part of the first semester.

Graduates of the program may qualify for exemption from one or more in-college apprentice training sessions. They may also qualify for a reduction in the duration of apprenticeship training in a number of related trades.

Hands-on, real work experience is an integral component of the program. The supporting technical and academic studies provide students with an opportunity to cope with rapidly changing technology. The program conforms to and parallels industrial practices and standards, equipping graduates with the skills to meet the demands of today’s job market and the challenges of tomorrow.

Employment Opportunities
Northwestern Ontario needs skilled motive power service technicians. Our Automotive Repair and Service Technicians have the skills to obtain employment as automotive or truck technician and/or other mechanical areas relating to the motive power trade.

Career categories include prospective positions such as Automotive/Light Truck Service and Repair, Automotive Machinist, Alignment and Brake Technician, Automotive Electrical and Electronics Specialist, Truck & Coach Service and Repair, Service Manager/Foreman, Service Writer, Parts Sales, Body Repairs, Small Engine Repair and Maintenance or Automobile Sales.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:
- Grade 12 MCT4C Mathematics for College Technology
- or Grade 11 MCF3M functions
- or Grade 12 MAP4C College and Apprenticeship Mathematics

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology program to facilitate success in their technology path.

Please note that the core subjects run for 4 to 6 weeks modules.

First semester common core

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC 121 Applied Work Practices &amp; Procedures</td>
<td>84</td>
</tr>
<tr>
<td>HC 122 Engines</td>
<td>84</td>
</tr>
<tr>
<td>HC 123 Electricity &amp; Electronics</td>
<td>101</td>
</tr>
<tr>
<td>CS 040* College WritingEssential</td>
<td>45</td>
</tr>
<tr>
<td>SY 180 Exploring Human Diversity</td>
<td>45</td>
</tr>
</tbody>
</table>

Total Hours Per Semester 359

Second semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 222 Electrical, Electronics &amp; Fuel Systems</td>
<td>94</td>
</tr>
<tr>
<td>ES 224 Drive Train Systems</td>
<td>94</td>
</tr>
<tr>
<td>ES 225 Steering, Suspension &amp; Brakes</td>
<td>75</td>
</tr>
<tr>
<td>ES 226 Air Conditioning &amp; Body Controls</td>
<td>75</td>
</tr>
<tr>
<td>ES 227 Field Placement (2 weeks)</td>
<td>80</td>
</tr>
</tbody>
</table>

Total Hours Per Semester 418

Second semester is 17 weeks of academic study and 2 weeks of field placement.

* Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117 Communication Strategies.
The Motive Power Techniques Programs afford students an excellent opportunity to participate in a common first semester Motive Power Program that will prepare them to choose a career in the Motive Power Field. The second semester is oriented towards a specific interest. The two options presently available are Automotive and Heavy Equipment.

Although heavy equipment oriented, this program prepares students for a diverse number of career opportunities in a variety of mechanical fields. Students are involved in maintaining, operating, and repairing on and off-road heavy equipment such as front-end loaders, bulldozers, excavators, skidders, trucks and tractors. Those wishing to enter the Motor Vehicle, Truck/Coach or Farm Mechanic Trade would also benefit from this program.

Graduates of the program may qualify for exemption from one or more in-college apprentice training sessions. They may also qualify for a reduction in the duration of apprenticeship training in a number of related trades.

Support topics covering various ancillary courses such as Exploring Human Diversity and Communication Strategies, are an integral part of the first semester. Hands-on, real work experience is an integral component of the program. The supporting technical and academic studies provide students with an opportunity to cope with rapidly changing technology. The program conforms to and parallels industrial practices and standards, equipping graduates with the skills to meet the demands of today’s job market and the challenges of tomorrow.

Employment Opportunities

Northwestern Ontario needs skilled motive power service technicians. Our Heavy Equipment graduates have the skills to obtain employment as heavy equipment, truck, fork-lift, or farm equipment technicians and/or any other areas relating to the motive power trades.

Our graduates have found permanent employment in industries related to forestry, construction, mining, agriculture, transportation, government, automotive dealerships, service stations, specialty shops and virtually any business or industry that employs mechanics. Other graduates start their own business or find employment in sales, parts, training, management etc. Our graduates have been well received in virtually every type of industry in Northwestern Ontario.

Career categories include prospective positions such as Heavy Equipment Service and Repair, Truck & Coach Service and Repair, Mining Equipment Service and Repair, Forestry Equipment Service and Repair, Diesel Fuel System Specialist, Automotive Machinist, Service Manager/Foreman, Service Writer, Parts Sales, Small Engine Repair and Maintenance or Truck and Equipment Sales.

Admission Requirements

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:

Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M functions
or Grade 12 MAP4C College and Apprenticeship Mathematics

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology program to facilitate success in their technology path.

Please note that the core subjects run for 4 to 6 week modules.

First semester (common core)

<table>
<thead>
<tr>
<th>Course Number/Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC 121 Applied Work Practices &amp; Procedures</td>
<td>84</td>
</tr>
<tr>
<td>HC 122 Engines</td>
<td>84</td>
</tr>
<tr>
<td>HC 123 Electricity &amp; Electronics</td>
<td>101</td>
</tr>
<tr>
<td>CS 040* College Writing Essentials</td>
<td>45</td>
</tr>
<tr>
<td>SY 180 Exploring Human Diversity</td>
<td>45</td>
</tr>
<tr>
<td><strong>Total Hours Per Semester</strong></td>
<td><strong>359</strong></td>
</tr>
</tbody>
</table>

Second semester

<table>
<thead>
<tr>
<th>Course Number/Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC 240 Fluid Power System</td>
<td>75</td>
</tr>
<tr>
<td>HC 241 Electrical &amp; Electronics II</td>
<td>57</td>
</tr>
<tr>
<td>HC 242 Heavy Duty Fuel Systems</td>
<td>75</td>
</tr>
<tr>
<td>HC 243 Drive Train Systems</td>
<td>75</td>
</tr>
<tr>
<td>HC 244 Steering, Suspension &amp; Brakes</td>
<td>57</td>
</tr>
<tr>
<td>HC 245 Field Placement (2 week)</td>
<td>80</td>
</tr>
<tr>
<td><strong>Total Hours Per Semester</strong></td>
<td><strong>419</strong></td>
</tr>
</tbody>
</table>

Second semester is 17 weeks of academic study and 2 weeks of field placement.

* Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117 Communication Strategies.
The Power Engineering Program prepares students to enter the expanding, dynamic Power Engineering field at entry levels of employment (i.e. 4th class level). The program is designed to cover the Interprovincial curriculum including writing 3rd and 4th class Power Engineering exams. In addition, the program will also provide applied practice. Upon successful completion of the program, students will be eligible for 4th Class Interprovincial Certificate of Qualification.

Heavy emphasis is placed on technical studies, combined with practical hands-on experience. The program conforms to industrial practices and procedures. The Power Engineer is exposed to a diverse number of fields (i.e. electrical, electronics, computers, chemical, mechanical fields), which make it a truly challenging and rewarding career.

**Employment Opportunities**

Career categories include prospective positions and locations such as Operating & Maintaining Power Plants, Pulp & Paper Industry, Ontario Hydro Thermal Plants, Co-Generation Plants, Hospitals, Large Buildings, Sawmills, Mining, Breweries & Distilleries, Oil Refining, Manufacturing, Technical Sales, Industrial Sales, Process Operators, Water Treatment or Inspection.

**Admission Requirements**

1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

**And Courses Required:**

- Grade 12 MCT4C Mathematics for College Technology
- or Grade 11 MCF3M Functions
- or Grade 12 MAP4C College and Apprenticeship Mathematics.

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology program to facilitate success in their technology path.
### Third semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 406 Measuring Quality in the Workplace</td>
<td>2</td>
</tr>
<tr>
<td>PE 301 Applied Science II</td>
<td>4</td>
</tr>
<tr>
<td>PE 302 Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>PE 303 Industrial Legislation, Piping, Fuels &amp; Combustion</td>
<td>4</td>
</tr>
<tr>
<td>PE 304 Electrotechnology and Instrumentation</td>
<td>6</td>
</tr>
<tr>
<td>PE 306 Industrial Safety &amp; Fire Protection</td>
<td>2</td>
</tr>
<tr>
<td>PE 300 Work Experience</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Fourth semester

<table>
<thead>
<tr>
<th>Course Number/ Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 411 Boilers &amp; Control Systems</td>
<td>5</td>
</tr>
<tr>
<td>PE 413 Feedwater Treatment II</td>
<td>3</td>
</tr>
<tr>
<td>PE 414 Prime Movers</td>
<td>6</td>
</tr>
<tr>
<td>PE 415 Refrigeration, Air Compression &amp; Wastewater Treatment</td>
<td>4</td>
</tr>
<tr>
<td>PE 416 Pumps, Welding &amp; Pressure Vessels</td>
<td>4</td>
</tr>
<tr>
<td>PE 400 Work Experience</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

* Confederation College is committed to providing students with every opportunity to be successful, and strong communication skills are an important element of success. All students will be enrolled in CS040 College Writing Essentials. However, based on a satisfactory score in a post-admission assessment, students will have the opportunity to test into CS117 Communication Strategies.*
The Welding Program’s objectives are to build a solid foundation in the basics of various welding processes and to prepare students for future trends so that they can readily transfer this technology to the shop floor. State-of-the-art welding equipment allows hands-on training, which enhances the classroom learning experience. Individualized and personalized instruction provides ample opportunity for one-on-one discussion on specific applications. The program conforms to and parallels with industrial standards, practices and procedures, providing graduates with the skills required to meet today’s job market and the challenges of tomorrow.

Students have the opportunity to test for an all position C.W.B. ticket that most employers use as a standard for employment.

Employment Opportunities
Welding fitters are sought after and well-paid skilled workers in Northwestern Ontario. Graduates of the program may pursue a welding career in construction, maintenance, fabrication, manufacturing shops, and service sector industries.

Welding is essentially a “universal trade” and graduates with good welding skills may apply them in other mechanical trade areas.

Career categories include prospective positions such as Construction Trades, Ironworker Welder, Boiler Maker Welder, Millwright Welder, Carpenter Welder, Maintenance Welder, Heavy Equipment Repair, Forestry Welder, Transportation Welder, Mining Welder.

Admission Requirements
1. Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels.
2. or successful completion of Mature Student Test.
3. or appropriate credits from Academic and Career Entrance.

And Courses Required:
Grade 12 MCT4C Mathematics for College Technology
or Grade 11 MCF3M Functions
or Grade 12 MAP4C College and Apprenticeship Mathematics.

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology program to facilitate success in their technology path.

Welding Techniques
34 week, Ontario College Certificate Program (0375)

First semester

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<tr>
<th>Course Number/ Title</th>
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<td>WC 121 Oxy-acetylene Welding</td>
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<td>WC 122 Basic Arc Welding</td>
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<td>WC 126 T-Joints</td>
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<td>WC 127 Blueprint Reading</td>
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<td>WC 128 Pipe to Plate</td>
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<td>WC 224 Pattern Development</td>
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<td>WC 301 Advanced Welding</td>
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**Apprenticeship Programs**

**Why Career Options in Apprenticeships**
- Earn while you learn
- Train to meet the needs for the forecasted critical shortage of skilled trades people throughout the province
- Enter a career which provides the opportunity for continued education
- Hands-on training with enhanced in-class curriculum

**First Steps**

The first step in becoming an apprentice is to find an employer who is willing to provide the required training. Once you have found an employer, you and your employer register with the province and sign an apprenticeship agreement. Apprenticeship training in Ontario is under the direction of the Ministry of Training, Colleges and Universities, Apprenticeship Branch. Confederation College is approved to deliver Apprenticeship Programs which have been designed to meet Provincial Standards for Apprenticeship training. Registered apprentices are scheduled to attend the in-school sessions through the Apprenticeship Branch.

For information, admission requirements and registration for apprenticeship programs contact:
Ministry of Training, Colleges and Universities
Training Division
28 N. Cumberland Street
Thunder Bay ON P7A 4K9
Telephone: (807) 345-8888

The following is a list of the Apprenticeship Programs offered at Confederation College:
- Automotive Service Technician – Levels 1, 2, 3
- Brick and Stone Mason – Levels 1, 2, 3
- Carpenter – Levels 1, 2, 3
- Cook – Level - Basic, Advanced
- Electrician Construction and Maintenance – Level 1, 2, 3
- General Machinist – Level 1, 2, 3
- Heavy Duty Equipment Technician – Level 1, 2, 3
- Industrial Electrician
- Industrial Mechanical Millwright – Level 1, 2, 3
- Instrumentation and Control Technician – Level 1, 2, 3
- Roofer – Level 1, 2, 3
- Saw Filer/Fitter – Level 1, 2, 3
- Truck Coach Technician – Level 1, 2, 3
- Welder – Level 1, 2, 3

**Links**

Please visit the following links for more information on skilled trades and apprenticeships.

http://www.edu.gov.on.ca/eng/tcu/apprentices
http://www.careersintrades.ca/
Centre For Continuing Education And Regional Campuses

Full-Time Programs

Regional Campuses and Distance Learning

Regional campuses and distance learning provide quality education close to home. They offer a wide range of services and programs to the people of Northern Ontario giving an opportunity for residents to participate in postsecondary education without relocating to other centres.

Postsecondary programming is delivered by regional campuses located in Dryden, Fort Frances, Geraldton, Kenora, Marathon and Sioux Lookout and Continuing Education Distance Delivery (Thunder Bay) to rural and remote Northern Ontario communities.

We offer a variety of full-time postsecondary program opportunities in the Business, Community Services, General Arts and Science, Health Sciences and Technology and Trades. Contact us for program availability.

Learners participating in Regional Campus or Distance Learning programs will be receiving their lectures through a variety of alternate delivery formats that may include internet, audio, video, independent and traditional.

Regional Campuses also offer skill training and pre-employment programs, as well as seminars and workshops specifically oriented to local business and industry. Offerings can be customized for individual employers.

For further information, please contact the Confederation College campus nearest you or view the website www.confederationc.on.ca

Centre for Continuing Education -
Distance Learning
Thunder Bay, P.O. Box 398, 1450 Nakina Drive P7C 4W1 Telephone: (807) 475-6550 or 1 800 563-9435 Email: distancefulltime@confederationc.on.ca Website: www.confederationc.on.ca/ce

Dryden 100 Casmir Street, P8N 3L4 Telephone: (807) 223-3035 Email: erickson@confederationc.on.ca Website: www.confederationc.on.ca/dryden

Fort Frances 440 McIrvine Road, P9A 3T8 Telephone: (807) 274-5395 Email: fortfrancescampus@confederationc.on.ca Website: www.confederationc.on.ca/fortfrances

Geraldton 300 Beamish Avenue, Box 368, P0T 1M0 Telephone: (807) 854-0652 Website: www.confederationc.on.ca/geraldton

Kenora 900 Golf Course Rd., P.O. Box 1370, P9N 3X7 Telephone: (807) 468-3121 Email: moore@confederationc.on.ca Website: www.confederationc.on.ca/kenora

Marathon 14 Hemlo Drive, Box 520, P0T 2E0 Telephone: (807) 229-2464 Website: www.confederationc.on.ca/marathon

Sioux Lookout 70 Wellington Street, Box 667, P8T 1B1 Telephone: (807) 737-2851 Email: erickson@confederationc.on.ca Website: www.confederationc.on.ca/siouxlookout
Centre For Continuing Education

Part-Time Delivery

Part-Time Programs - Thunder Bay and Region

The Centre for Continuing Education, Thunder Bay campus, offers a variety of postsecondary, vocational and post-diploma credential programs exclusively through part-time study. Courses and programs are available through a variety of delivery methods. Refer to the corresponding chart for credentials for these programs. We are committed to providing educational value and quality service. For more information call our customer service line at (807) 475-6550 or 1-800-563-9435 or visit our website for the most recent update of programs and courses, www.parttimelearning.com or www.confederationc.on.ca/ce.

Business Programs

• Bookkeeping
• Business - Fundamentals
• Business Management Skills (OMDP)
• Leadership Skills (OMDP)
• Purchasing/Materials Management

Computers Programs

• Computer Applications for Business Level I
• Computer Applications for Business Level II

Community Services Programs

• Autism & Behavioral Sciences
• Developmental Service Worker
• Early Childhood Education Resource Teacher

Health Programs

• Basic and Advanced Foot Care
• Diabetes Education
• Food Services Worker
• Personal Support Worker
• RPN Administration of Medications

Other Vocational Programs

• Bartending
• Esthetics
• Floral Design
• Language Studies
• Maintenance Management Professional
• Gas/Oil Technician
• Welding

eLearning

Confederation College is a member of a consortium of 22 Ontario community colleges offering over 900 eLearning courses. Give us a call to discuss your needs.

Programs available through eLearning:

• Computer Applications for Business Level I
• Computer Applications for Business Level II
• Effective Teaching and Training Strategies
• Flight Attendant
• Geographic Information Systems
• Home Inspection
• Hospital Ward Clerk/Secretary
• Human Resources Management
• Law Clerk
• Legal Office Assistant
• Medical Office Assistant
• Medical Transcriptionist
• Office Technology Administration
• Professional Writing
• Diploma in Military Arts & Science
## Centre For Continuing Education

**Part-Time Delivery - Program Credentials**

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<th>Programs</th>
<th>Ontario College Graduate Certificate</th>
<th>Ontario College Diploma</th>
<th>Ontario College Certificate</th>
<th>Confederation College Certificate</th>
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For complete descriptions of Ontario College Graduate Certificate, Ontario College Diploma, Ontario College Certificate, Confederation College Certificate, Recognition of Achievement, Recognition of Completion & External Certification, visit us on the web at [www.confederationc.on.ca/ce](http://www.confederationc.on.ca/ce).
Marketing, Communications & External Relations Department

Marketing Department

The marketing, communications & external relations department provides advice and leadership for College communications and outreach. Staff in this department facilitate and implement communications using a variety of methods, including Media, Advertising and Electronic technology. Our goal is to create a buzz about College events and news, and to increase awareness, interest and pride in the College. The entire College community is responsible for communications excellence. Department staff provide the following services across the College:

- Corporate branding, reputation and image management
- Communications planning and issue management
- Relationship marketing strategy
- Media relations, news releases and media events
- Web site and staff Intranet
- Photography services
- New media and social networking
- Advertising (print, radio, TV, online, signs and direct marketing)
- Marketing and communications research and data

Personnel work with College faculty and staff to create customer-focused communications that reach out to our learners, partners, communities, business and industry – within northwestern Ontario, across Canada and around the world. Communication are to inform people of the benefits, accessibility, pathways to individual success and life change; to enhance employers and ensure community capacity, healthy business and industry; and to enhance socio-economic prosperity of northwestern Ontario.

By reaching out to the College’s diverse learners, we promote the College as an excellent place to come learn, grow and succeed. Excellent communications will help ensure the College is recognized for the excellent, high quality education it provides, as well as for its contributions to the economy and growth in and beyond northwestern Ontario.

Department Contacts:
Sue Prodaniuk, Director Communications
Telephone: (807) 475-6139
Email: sprodani@confederationc.on.ca

Bethanie Foster
Media Relations
Telephone: (807) 475-6137
Email: bafoster@confederationc.on.ca

Murray Metcalf
Webmaster and Photographer
Telephone: (807) 475-6275
Email: metcalf@confederationc.on.ca
Training and Development

Confederation College is the “trainer of choice” for business, industry, organization and community’s throughout Northwestern Ontario. Our vision connects us with our resource sector partners, First Nation communities, industry and small business clients. We provide flexible learning and development services in human resources development and innovative business and community planning. We have a very diverse client group with individuals, companies and organizations accessing our recognized products and services in a variety of ways. We also provide specialized services to meet client needs. Our Leadership Development and Aboriginal Cultural Competent seminars are important opportunities for client groups.

Contact:
John Hatton, Director
Training and Development
Telephone: (807) 475-6626
Fax: (807) 626-9584
E-mail: hatton@confederationc.on.ca

JOB CONNECT (Services for Job Seekers)

IRS—Information and Referral Services

is a Community Employment Resource Centre where anyone looking for work and/or training can access this walk-in community resource.

For the Job Seeker we offer free access to:

- Computers to create, update or make changes to resumes, cover letters or any other JOB RELATED documents.
- All computers have word processing and Internet access
- Job related documents can be faxed to both local and long distance numbers
- Photocopier, fax and telephone available for job search
- Information on community resources
- Workshops (resume, interview prep) and Apprenticeship Information
- Assistance from the Resource Centre Advisor
- Referral to other community agencies
- Summer Job Service, Program for students returning to school in the fall (Apr-Sept)

This is primarily a self-directed service, however our friendly, helpful staff will be happy to help you.

Need a bit more Help?

In order to register for additional services you must be:

- Out of full-time school
- Out of full-time work
- Not in receipt of employment insurance benefits

If you answered YES to all of the above statements then you may be eligible for additional support which may include:

Services & Programs offered:

- Employment Counseling with an Employment Advisor where you will establish goals and an action plan to determine services needed
- Job Placement and Support services where our Employment Advisors will work with those individuals that require additional services by arranging placements with local employers

Job Connect is here to help you. Please contact one of our local offices for more information or assistance;

Thunder Bay & Remote Communities
Confederation College Campus
1450 Nakina Drive
Thunder Bay, ON P7C 4W1
P: (807) 473-3829/475-6298
F: (807) 473-3869
TF: 1-800-465-3935

Dryden
Confederation College
41A Duke Street
Dryden, ON P8N 1E6
P: (807) 223-4006
F: (807) 223-5422

Marathon
Confederation College
Suite 111, 52 Peninsula Rd
Marathon, ON
P0T 2E0
P: 1-866-602-6667
F: (807) 229-3084

Geraldton
Confederation College
300 Beamish Avenue
Geraldton, ON P0T 1M0
P: 1-807-854-0859
F: (807) 854-0268
Academic And Career Entrance Program (ACE)

Eligibility Criteria

- Resident of Ontario
- Eligible to work in Ontario
- 18 years or older (some exceptions apply)
- If eligible, tuition costs may be covered by the Ministry of Training, Colleges, and Universities (Employment Ontario)

Program Description

This provincially recognized Certificate Program serves as an equivalency to Grade 12 for the purposes of college entry or apprenticeship. Many employers, including the Ontario Provincial Police and General Motors accept the ACE Certificate as equivalent to Grade 12. In addition, most ACE courses are accepted as admission requirements to Lakehead University.

To begin the ACE program, students must be assessed at the appropriate skill level or have completed the necessary courses from the Academic Upgrading Program.

Students may take only the necessary ACE courses (listed under ACE Courses offered) required for entry to a specific post secondary program, or they can complete all 4 courses required to earn a provincial ACE Certificate (Grade 12 Equivalent).

Delivery

ACE courses are now available on campus or through distance delivery. Students choosing the distance delivery will require computer internet access.

Colleges collect evidence that academic upgrading students do very well in post secondary programs. Students who enter college through the Academic Upgrading/ACE Program tend to stay in the program they first register in, graduate in greater numbers, and attain higher grades than their colleagues. The ACE Program operates year round and has continuous intake (students can start anytime).

ACE Courses offered

- ACE Communications
- ACE Core Mathematics
- ACE Technical Mathematics
- ACE Business Mathematics
- ACE Biology
- ACE Chemistry
- ACE Physics
- ACE Self-Management Self Direction
- ACE Computers

The Provincial ACE Certificate is

- Recognized as an equivalent to an OSSD by all Ontario community colleges
- Accepted by the Ministry of Training, Colleges and Universities as a Grade 12 equivalency for Apprenticeships
- Accepted by a number of employers as Grade 12 Equivalent

ACE Certificate Requirements

To earn the ACE Certificate a student is required to complete the following courses.

- ACE Communications
- ACE Mathematics
- Any other two additional ACE Courses listed above

Contact Information

For more information about the ACE Program, Academic Upgrading Program, or PCD program, please contact the Academic Upgrading Office.

Telephone:  (807) 473-3723
            (807) 475-6418

To contact the Program Coordinator.

Telephone:  (807) 475-6537
Academic Upgrading Program

Eligibility Criteria

- Resident of Ontario
- Eligible to work in Ontario
- 18 years or older (some exceptions apply)
- If eligible, tuition costs may be covered by the Ministry of Training, Colleges, and Universities (Employment Ontario)

Program Description

The Academic Upgrading Program prepares students to meet their educational and/or employment goals. Through the Academic Upgrading Program students can take all course requirements for admission into college, university, and apprenticeship programs or employment.

The program focuses on upgrading mathematics, communications, and computer skills. After successful completion of the preparatory courses, students can then enter the ACE Program which offers a wide variety of courses at the Grade 12 equivalent level.

The Academic Upgrading Program offers an individualized approach to learning.

- Program is personalized to meet specific educational goals
- Learning is self-paced and flexible and classes are offered both on campus and through distance learning
- Classes operate year round with continuous intake (students can start anytime)
- Program offers childcare and transportation allowance for those who qualify

You Should Enrol if

- Not having your Grade 12 Diploma is holding you back from employment and educational opportunities
- You have a high school diploma but not the subjects you need to enter further education and/or training
- You want to obtain your Academic and Career Entrance (ACE) Certificate

Program Highlights

- Students pursue individualized programs of study directly related to their educational needs
- Academic and Career advisement is available through the Program Coordinator and Student Success Centre

How to Begin

Call the Academic Upgrading Office at the numbers listed below. They will arrange for an assessment of your current skill levels in mathematics and communications. Once you are registered into the program, you will be given a date to begin your studies.

On Campus Contact Information

For more information about the ACE Program, Academic Upgrading Program, or PCD Program, please contact the Academic Upgrading Office.

Telephone: (807) 473-3723
(807) 475-6418

To contact the Program Coordinator.

Telephone: (807) 475-6537

Academic Upgrading Distance Learning

Students can complete their Academic Upgrading and/or ACE Certificate (Grade 12 Equivalency) by working and learning from home on their own computers via the Internet or by participating at Contact North Sites located across Ontario.

The Academic Upgrading Distance Learning Program also offers the flexibility of full-time, part-time, and flexible hours of study.

For more information call the Distance Learning Office.

Telephone: (807) 473-3848
Toll Free: 1-888-501-0870 (from outside Thunder Bay)
Personal Career Development Program

Eligibility Criteria

- Resident of Ontario
- Eligible to work in Ontario
- 18 years or older (some exceptions apply)

Program Description

12-Week College Certificate Program

The Personal Career Development (PCD) program is designed to help adults of all ages develop confidence, interpersonal skills, and an individual career/educational path using experiential learning and discussion. The PCD Program has four components:

- Self Development
- Education/Career Planning
- Academic Programming
- Job Placement

Upon completion of PCD, students will have established realistic personal and education/career goals, learned effective job search techniques, and have progressed in their academic program. A College Certificate of Achievement will be awarded to each successful student of the program.

Program Highlights

Self Development

The self development component assists individuals in developing the skills and abilities necessary for planning and achieving personal success. Effective problem solving skills in the areas of self, family, community and leisure are addressed.

Education/Career Planning

The education and career planning component assists individuals in developing the knowledge, skills, and attitudes related to establishing future goals. The individual will examine educational opportunities, identify transferable and work related skills, and research the various career paths of their choice. In addition, the many aspects of job readiness and job search techniques will be addressed.

Academic Skills

The purpose of the academic skills component is to begin individuals on their academic training path and upgrade their mathematics, communications, and computer skills. Completion of the program will prepare students to continue their academics in the Academic Upgrading Program, a Skills Course Program, a Post Secondary Program, or to go directly into employment.

On Campus Contact Information

For more information about the Personal Career Development Program, please contact the numbers listed below.

Telephone: (807) 473-3827
(807) 475-6418

To contact the Program Coordinator.

Telephone: (807) 475-6537
NEW! **eLearning Courses** …

As a member of the OntarioLearn consortium, Confederation College is able to offer hundreds of eLearning courses in a variety of subject areas. Registration, evaluation, and/or credentialing are by Confederation College; however, the course delivery can originate from any of the 22 Ontario colleges in the consortium. Confederation’s Academic Schools have determined that many of these eLearning courses are equivalent to our own postsecondary offerings. As such, successful completion of the eLearning course alternative (shown in brackets next to certain course numbers as seen in example, next column) can be substituted as a postsecondary equivalency credit for that particular course.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>BM 105</td>
<td>MATHEMATICS I 48 Credit Hours</td>
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<tr>
<td></td>
<td>Prerequisite: Program Admission Requirements</td>
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</tbody>
</table>

In addition, the following General Education (GE) electives can be used to fulfill any of the GE requirements of your chosen program:

- OL 203     Abnormal Psychology
- OL 207     Criminal Psychology - Psychopathic Minds
- OL 911     Political Geography
- OL 234     Racism and Discrimination
- OL 916     Myths and Legends
- OL 958     Censorship and the Media
- OL 351     Intro to Intercultural Communication
- OL 258     First Nations People
- OL 210     Social Psychology
- OL 937     Surveying Society
- OL 939     What in the World is Going On?
- OL 944     Let’s Talk Sports
- OL 943     Hockey Hall of Fame Presents

The equivalencies noted are current at time of publication; however, additions occur throughout the year. For the latest information on eLearning course equivalencies, contact the Centre for Continuing Education at (807) 475-6550 or (800) 563-9435; visit the college website www.confederationc.on.ca/ce, click “e-Learning,” “course equivalencies.”
AB 100 PATIENT CARE THEORY I
64 Credit Hours
Prerequisite: Program Admission
Requirements
Co-requisite: AB 101
The major emphasis of this course is placed on the responsibilities of the student in assessing, managing and transporting patients in stabilized conditions, emergency situations and situations that may become emergencies. Students will learn the assessment, pathophysiological processes and management of various medical and traumatic problems that may afflict pre-hospital patients.

AB 107 PATIENT CARE THEORY I
60 Credit Hours
Prerequisite: Program Admission
Requirements
The major emphasis of this course is placed on the responsibilities of the student in assessing, managing and transporting patients in stabilized conditions, emergency situations and situations that may become emergencies. Students will learn the assessment, pathophysiological processes and management of various medical and traumatic problems that may afflict pre-hospital patients.

AB 109 PATIENT CARE PROCEDURES LAB I
60 Credit Hours
Prerequisite: Program Admission
Requirements
In this course, the student will acquire the skills necessary to perform basic assessment and pre-hospital care interventions to victims of trauma or the critically ill. The student will apply those selected laboratory skills for the provision of basic pre-hospital emergency care in various simulated laboratory settings.

AB 111 MEDICO-LEGAL ASPECTS OF PATIENT CARE
30 Credit Hours
Prerequisite: Program Admission
Requirements
This course is designed to provide the student with the ability to apply relevant legislation and regulations enacted by Provincial and Federal Governments. The student will focus upon the accountability and responsibility of his/her own behaviours, by concentrating upon the legalities governing his/her professional duties. The student will understand his/her role as an advocate for patient rights to dignity, privacy, confidentiality, and consent/non consent to treatment.

AB 113 (*OL equivalency: OL 432) ANATOMY AND PHYSIOLOGY I
45 Credit Hours
Prerequisite: Program admission requirements
To be uploaded as soon as possible.

AB 115 PHYSICAL EDUCATION I
45 Credit Hours
Prerequisite: Program Admission
Requirements
This course is designed to provide the student with a general and job-specific level of fitness, enabling him/her to perform the physical requirements of a Paramedic. Emphasis will be placed on a strength component focusing on safe lifting practices. Cardiovascular fitness and flexibility will also be stressed. Students will also benefit from the development, implementation, and monitoring of a personal training program. Additional components include the promotion of a healthy lifestyle, highlighting nutrition and stress management through sports and physical activity.

AB 117 COMMUNICATIONS FOR PARAMEDICS I
45 Credit Hours
Prerequisite: Program Admission
Requirements
In this course, students will develop their oral and written communication skills. Students will learn medical terminology, the principles of accurate report writing and practice effective listening and communication skills. Students will use e-mail and Internet for communication and research. Students will read, analyze, discuss, and write about a variety of topics and issues relating to the health care field. They may also present reviews of professional journal articles.

AB 118 PATIENT CARE PROCEDURES LAB II
60 Credit Hours
Prerequisite: Completion of all Semester 1 courses.
S-AED “No Shock” and “Shock Indicated” theories, respiratory emergencies, stroke emergencies, cardiac theory (M.I., CHF) and S-AED Post resuscitation theory.

AB 120 PATIENT CARE THEORY II
60 Credit Hours
Prerequisite: Completion of all Semester 1 courses.
This course is a continuation of Patient Care Theory I. The major emphasis of this course is placed on the responsibilities of the student in assessing, managing and transporting patients in stabilized conditions, emergency situations and situations that may become emergencies. Students will learn the assessment, pathophysiological processes and management of various medical and traumatic problems that may affect pre-hospital patients.

AB 212 PATHOPHYSIOLOGY IN EMERGENCY MEDICAL CARE
45 Credit Hours
Prerequisite: Completion of all Semester 1 courses.
This course is designed for students who have a general understanding and working knowledge of the structure and function of the human body. Students will study how and why a disease develops and progresses. The focus will be on pathophysiology of diseases and situations requiring emergency medical care.

AB 214 ANATOMY AND PHYSIOLOGY II
45 Credit Hours
Prerequisite: AB 113
To be uploaded as soon as possible

AB 216 COMMUNICATIONS FOR PARAMEDICS II
45 Credit Hours
Prerequisite: Completion of all Semester 1 courses.
This course is designed to strengthen and refine students’ skills in communicating effectively – in both oral and written format – in the field of paramedicine. This course emphasizes verbal, written and technological communication (iMedic); career development; group skills and leadership. This course will also encompass the development of strategies to enable the student to grow in their personal and professional role as a Paramedic. Students will appreciate their responsibility as leaders and agents of change in the practice of Paramedicine. Increased emphasis will be on evidenced based research in paramedicine. Students will learn skills in interviewing for jobs, job search, portfolio building and resume design.
Course Descriptions

AB 218
PHYSICAL EDUCATION II
30 Credit Hours
Prerequisite: Completion of all Semester 1 courses.
This course is designed to further develop physical fitness through participation in an individually designed training program. Back care, proper posture and the biomechanics of safe techniques when lifting, positioning and transporting will be continued. Final testing will be based on the cumulative components of AB115 and AB218.

AB 220
CLINICAL AND COMMUNITY EXPERIENCE
96 Credit Hours
Prerequisite: Completion of all Semester 1 courses.
Practical experience will be provided in a number of settings. Students will apply theoretical content of previous courses through observation in various selected land ambulance services. Students may also visit or have representatives visit our college from such areas as: community care agencies; Base Hospital, Police, LRSU, Fire and Rescue Services, C.A.F., O.P.A, CACC, and the Boy’s and Girl’s Club. Students will be expected to volunteer up to 16 hours to a human service organization in Thunder Bay; Interprofessional Education with broad knowledge of 10 programs in our School of Health and Community Services.

AB 321
PATIENT CARE THEORY III
60 Credit Hours
Prerequisite: Successful completion of all Year 1 Paramedic courses.
The major emphasis of this course is placed on the responsibilities of the paramedic in assessing, applying the pathophysiological processes, managing and transporting patients in stabilized conditions, and responding to situations that have or may become environmental, pediatric, obstetric or gynecological emergencies. This course is a continuation of Patient Care Theory II.

AB 322
PATIENT CARE PROCEDURES III
60 Credit Hours
Prerequisite: Successful completion of all Year 1 Paramedic courses.
This course is a continuation of Patient Care Procedures Lab II. The student will acquire the skills necessary to perform specific assessment and pre-hospital care interventions to victims of environmental, pediatric, and obstetrical or gynecological emergencies. He/she will also learn how to recognize complications and minimize them, either at the scene or during transport by ambulance. The student will apply those selected laboratory skills for the provision of specific pre-hospital emergency care in various simulated laboratory settings. At the end of this course, the student will be able to demonstrate his/her ability to perform skills related to the following theory/scenarios: heat stroke/exhaustion, burn, aquatic and hypothermia emergencies; pediatric respiratory, diabetes and anaphylaxis emergencies; labour and delivery and neonatal emergencies.

AB 325
AMBULANCE OPERATIONS
45 Credit Hours
Prerequisite: Successful completion of all Year 1 Paramedic courses.
This course emphasizes techniques necessary to ensure driver and vehicle readiness for emergency service. Utilizing both classroom and in-vehicle situations, students will acquire the skills required to: maintain emergency vehicles, prepare and safely operate an emergency vehicle, drive defensively avoiding hazards. The techniques required to work effectively with other emergency response personnel will be emphasized throughout the course. This course requires a Class “G” license.
Air utilization safety practices and current radio operations procedures are discussed. Interprofessional education, module 2 will be taught with this course.

AB 327
PHARMACOLOGY FOR PARAMEDICS
30 Credit Hours
Prerequisite: Successful completion of all Year 1 Paramedic courses.
This course is designed to aid the students in understanding pharmacokinetics, classification of pharmacology and correlation of common day-to-day prescription and over-the-counter medication with specific pathologies. This course is designed for pre-hospital and other health care providers.

AB 329
ADVANCED SKILLS FOR PRIMARY CARE PARAMEDICS - THEORY
45 Credit Hours
Prerequisite: Successful completion of all Year 1 Paramedic courses.
This course provides the student with a framework of knowledge about the general principles of pharmacology at a level which is appropriate for the paramedic. The student will become familiar with the equipment and drugs used by Advanced Care Paramedics. Students will be expected to have a theoretical and practical knowledge of ACP Protocols and be able to effectively assist ACPs with their protocols. Students must demonstrate competence in being able to assist an ACP with their protocols.

AB 331
PARAMEDIC: AMBULANCE FIELD EXPERIENCE I
144 Credit Hours
Prerequisite: Successful completion of all Year 1 Paramedic courses.
This course provides the opportunity for the student to receive practical experience in the ambulance. Under direct supervision of a paramedic crew, the student will participate in, analyze and review emergency and non-emergency situations, which will form a basis for the consolidation experience and ultimately professional practice in the future. This course requires a Class “G” license. The student will be able to manage independently basic transfer calls and single system trauma calls. The student with assistance will be able to manage SAED, SRP, and multi-patient calls under the guidance of preceptor paramedics.

AB 432
PARAMEDIC: HOSPITAL CLINICAL
48 Credit Hours
Prerequisite: Successful completion of all Semester 3 Paramedic courses.
Students will apply theoretical content of previous courses through observation and participation in various selected hospital departments. Students will gain an understanding of the role of hospital staff in the continuing care of pre-hospital patients. Hospital Clinical Experience: The hospital provides the opportunity for Paramedic students to determine the influence of pre-hospital care on subsequent patient care. It provides a realistic yet supervised setting for direct patient care in which learners will have the opportunity for skill development related to patient assessment, supportive care and observed treatment as well as participation with the health team. To achieve the purposes of the hospital clinical experience, the following clinical areas may be utilized: Intensive Care Unit; Coronary Care Unit; Recovery Room; Emergency Department; Labour and Delivery – Nursery; and Pediatrics Unit. Any care given will be under the direct supervision of the clinical instructor or preceptor. Where experience is not available, objectives will be discussed in relation to both pre-hospital and in-hospital care.

Course Descriptions
AB 434
PARAMEDIC: AMBULANCE FIELD EXPERIENCE II

288 Credit Hours
Prerequisite: Successful completion of all Semester 3 Paramedic courses.
This course provides the student with a concentrated period of field experience to further develop the ability to assess and meet the needs of the patient. Under the direct supervision of a paramedic crew the student will review, participate in and analyze emergency situations, which will form a basis for professional practice in the future.

AB 436
PARAMEDIC COMPREHENSIVE REVIEW

45 Credit Hours
Prerequisite: Successful completion of all Semester 3 Paramedic courses.
As the concluding component of the program, students enrolled in this comprehensive course will consolidate key concepts of pre-hospital care. Utilizing a student-centered approach, course participants will relate and integrate the theoretical concepts previously learned with clinical situations. Challenges of the student-to-Paramedic transition will be thoroughly discussed.

AC 102 (*OL equivalency: OL 090)
INTRODUCTORY ACCOUNTING

45 Credit Hours
Prerequisite: Program Admission Requirements
This course is an introduction to accounting. Students will examine the topics of recording and summarizing transactions, preparing worksheets, preparing adjusting and closing entries, and preparing financial statements for service businesses.
Students will apply their knowledge of basic accounting procedures to make financial business decisions.

AC 202
FUNDAMENTAL ACCOUNTING PRINCIPLES

45 Credit Hours
Prerequisite: AC 102
This course is a continuation of Introductory Accounting. The student will be able to identify major financial statement components. The student will apply accounting principles to inventory, internal control and cash, receivables, capital assets, current liabilities, and partnerships and corporations.

AC 220
APPLIED FINANCIAL ANALYSIS

45 Credit Hours
Prerequisite: AC 102
In this course, students will analyze the income statement and the balance sheet by examining relevant ratios and accounting principles. Students will project financial consequences of decisions and ideas with CVP analysis. Students will prepare a cost benefit analysis and learn how to calculate a projected return on investment. The impact on financial statements of a marketing campaign will be analyzed in a written report.

AC 222 (*OL equivalency: OL746)
COMPUTER ACCOUNTING

48 Credit Hours
Prerequisite: AC 202
Simply Accounting 2007 Pro for Windows is an integrated accounting software package designed to simplify bookkeeping functions using double entry accounting. Transactions are recorded in accounts receivable, accounts payable, payroll sub-ledgers, and the general ledger. Transactions are recorded using a periodic and perpetual inventory format, and revenues and expenses are allocated to a particular job, activity, or cost centre. A manual set of accounting records are converted to a computerized accounting system, and various financial statements and other reports are generated in the Simply Accounting and Excel formats.

AC 312 (*OL equivalency: OL087)
AUDITING I

45 Credit Hours
Prerequisite: AC 202
This course provides an introduction to the auditing principles and procedures that are applicable to external audits. Topics include reporting, the ethical and legal environment, audit objectives, audit evidence, audit planning and internal control. Students will apply their skills in developing an auditor’s report and an audit program.

AC 313 (*OL equivalency: OL160)
INCOME TAX I

45 Credit Hours
Prerequisite: AC 202
This course is an introduction to the basic principles of income taxation in Canada. Students will examine the terminology associated with the Income Tax Act and will learn the criteria for income tax liability and the fundamentals of income determination. Students will calculate net income from employment and from a business for tax purposes. Students will apply their knowledge to the preparation of a personal income tax return.

AC 353
FINANCIAL ACCOUNTING I

45 Credit Hours
Prerequisite: AC 202
This first course in intermediate financial accounting includes a review of basic accounting concepts and procedures. Issues related to the content and presentation of the income statement, retained earnings statement, the balance sheet, and the cash flow statement are discussed. Students will apply their knowledge in an analysis of how financial statement information is useful in making business decisions.

AC 415 (*OL equivalency: OL 127)
MANAGEMENT ACCOUNTING I

45 Credit Hours
Prerequisite: AC 202
The student is introduced to the foundations of management accounting; that is, cost terms and systems design, namely, job order costing, process costing, and activity based costing. Computerized spreadsheets are developed for specific applications.

AC 416 (*OL equivalency: OL075)
INCOME TAX II

45 Credit Hours
Prerequisite: AC 313
This course is a continuation of Income Tax I. Students will examine the rules related to the determination of income from property, capital gains and losses, and other income and deductions for tax purposes. Students will also apply their knowledge of income tax principles to the taxation of corporations and partnerships.
AC 453 (*OL equivalency: OL091)  
**FINANCIAL ACCOUNTING II**  
45 Credit Hours  
Prerequisite: AC 353  
This course is a continuation of AC 353. Financial accounting provides information primarily for decision makers outside the entity. Specialized areas such as inventory, intangible assets, current liabilities and contingencies, long term liabilities, issuance and reacquisition of share capital and temporary and long term investments will be studied.

AC 454 (*OL equivalency: OL170)  
**FINANCE I**  
45 Credit Hours  
Prerequisite: AC 353  
This course examines the goals and objectives of financial management with emphasis on decision making. Topics relate to financial statement analysis, operating and financial leverage and working capital management.

AC 458 (*OL equivalency: OL094)  
**MANAGEMENT INFORMATION SYSTEMS**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: AC 312  
This course introduces the student to the use of computer-based information systems in management. Topics surveyed include hardware and software of computer systems; file and database organization; networks and telecommunications; the systems development process; designing information systems solutions; systems security and controls; and the management of information systems. Computer software is used to provide illustration and practice in database concepts.

AC 505  
**ACCOUNTING CASE ANALYSIS**  
45 Credit Hours  
Prerequisite: Successful completion of the previous four semesters  
The purposes of this course are to introduce basic techniques of case analysis and to illustrate how to approach a case question in a logical and systematic manner by applying a framework for analyzing the information provided. Students will apply knowledge acquired in the major subject areas of accounting in case situations.

AC 507  
**MANAGEMENT ACCOUNTING II**  
45 Credit Hours  
Prerequisite: AC 415  
The student is introduced to various managerial accounting topics, namely, activity-based costing, standard costs, flexible budgets and overhead analysis, organizational structure and performance measurement, cost-volume-profit relationships, and relevant costs for decision making. Computerized spreadsheets are developed for specific applications and what-if analysis.

AC 508  
**ADVANCED TOPICS IN FINANCIAL ACCOUNTING**  
45 Credit Hours  
Prerequisite: AC 453  
This course covers advanced accounting topics such as the study of business combinations including the preparation of consolidated financial statements and financial reporting for the not-for-profit organizations and governments.

AC 553 (*OL equivalency: OL 110)  
**FINANCIAL ACCOUNTING III**  
45 Credit Hours  
Prerequisite: AC 453  
This course is a continuation of AC 453. Financial accounting provides information primarily for decision makers outside the entity. Specialized areas such as pensions, capital leases, corporate income tax and earnings per share will be studied.

AC 554 (*OL equivalency: OL085)  
**FINANCE II**  
45 Credit Hours  
Prerequisite: AC 454  
This course is a continuation of Finance I. Topics relate to financial management’s concern with effective allocation of capital by means of the capital budgeting decision and the raising of long-term capital with an appropriate capital structure.

AC 508  
**ADVANCED TOPICS IN FINANCIAL ACCOUNTING**  
45 Credit Hours  
Prerequisite: AC 415  
The student is introduced to various managerial accounting topics, namely, activity-based costing, standard costs, flexible budgets and overhead analysis, organizational structure and performance measurement, cost-volume-profit relationships, and relevant costs for decision making. Computerized spreadsheets are developed for specific applications and what-if analysis.

AC 554  
**FINANCE II**  
45 Credit Hours  
Prerequisite: AC 454  
This course is a continuation of Finance I. Topics relate to financial management’s concern with effective allocation of capital by means of the capital budgeting decision and the raising of long-term capital with an appropriate capital structure.

AF 102  
**FLIGHT TRAINING FOR PPL**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: AF 111, AF 150  
This course will introduce and develop fundamental aircraft handling skills, knowledge and attitudes that are necessary for the student to safely fly the first solo circuit.

AF 111  
**GROUND SCHOOL FOR PRIVATE PILOT LICENCE**  
96 Credit Hours  
Prerequisite: Program Admission Requirements  
This is an introductory ground school course which exceeds the Transport Canada minimum requirements for private pilot ground school. The student will study the subjects of Air Law, Navigation, Meteorology and General Knowledge.

AF 115  
**AIRCRAFT SYSTEMS AND OPERATIONS**  
32 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: AF 111  
This is an introductory course exploring various light aircraft systems. The learner will gain a practical knowledge of the systems, their operation and approved procedures. The operations portion will introduce aircraft handling, safety considerations, company procedures and our safety management system.
### Course Descriptions

#### AF 150 HUMAN FACTORS
15 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to increase awareness and understanding of the human factors involved in the aviation industry. It does this in two ways: It examines the human factors involved in risk and the different levels of risk management. It also examines stress and other medical facts as they pertain to performance in an aircraft. The possibility of accident or incidents as a result of "pilot error" should be minimized as the student will have the opportunity to examine his/her current values and behaviours. This course also encourages a healthy lifestyle so that the student will be able to withstand the demanding physical stresses of commercial flying.

#### AF 200 ADVANCED GROUND SCHOOL
60 Credit Hours  
Prerequisite: Successful completion of semester 1  
The course is designed to expand the students' understanding of navigation, meteorology, flight instruments and operational procedures. The student is introduced to additional navigational techniques, fundamental float theory/techniques and private pilot flight test standards.

#### AF 220 WINTER SURVIVAL
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to prepare a student for a downed aircraft situation under the extreme cold temperature conditions of winter in Northern Canada. He/she will be taught essentials necessary for survival until assistance arrives. The course consists of classroom training, plus an outdoor compass orienteering exercise on snowshoes and culminates in a weekend outdoor survival exercise.

#### AF 222 FLIGHT TRAINING FOR PPL
45 Credit Hours  
Prerequisite: Successful completion of semester 1  
This course is the continuation of flight training from the first solo flight to the successful completion of the college proficiency flight test, and the accompanying Transport Canada flight test for the Private Pilot licence.

#### AF 250 PILOT DECISION MAKING
15 Credit Hours  
Prerequisite: Successful completion of semester 1  
The course is the study of pilot decision making, risk management, crew resource management and how they directly relate to flight performance and safety. It provides students an opportunity to examine their personal attitudes, current values and behaviours. This will be compared to the view of pilots by industry, and what the actual expectations/responsibilities are.

#### AF 305 FLOAT TRAINING
80 Credit Hours  
Prerequisite: Successful completion of semester II  
Co-requisite: AF316, AF350  
This course develops the practical knowledge, skills and abilities that exceed the standards set by Transport Canada for the Seaplane Rating. This course employs a line-oriented flight training approach, where the student is introduced to virtually limitless opportunities to enhance his/her pilot decision making and flight skills. The end result is the development of a proficient and professional pilot who is capable of managing the challenges presented by today's industry.

#### AF 316 NAVIGATION & CROSS COUNTRY FLYING
224 Credit Hours  
Prerequisite: Successful completion of semester II  
Co-requisite: AF305, AF350  
In this course commercial flight training commences. The student receives advanced training that will further develop skills towards that of a commercial pilot. Crew resource management skills, flying abilities and flight planning will be enhanced through dual, solo and mutual navigation exercises, ranging from uncontrolled aerodromes to high density airports.

#### AF 350 AIRMANSHIP
16 Credit Hours  
Prerequisite: Successful completion of semester II  
This course prepares the student to be aware of his/her aircraft, environment and of his/her own capabilities, in order to exercise wise decision making and a high sense of self discipline. The focus of the ground school component of summer flight training is aircraft type specific training, safety precautions and standard operating procedures.

#### AF 404 AIR CARRIER OPERATIONS
45 Credit Hours  
Prerequisite: Successful completion of semester 4  
This course examines commercial air carrier operations in Canada including the appropriate Canadian Aviation Regulations, Transport Canada's legal requirements and practical company operations. This course is specifically designed to assist the student to make the transition from the academic college world to the practical world of working in the aviation industry. Students complete assignments to increase their knowledge of the regulations and current aviation issues and participate in exercises to improve their awareness of employer expectation and customer service.

#### AF 411 GROUND SCHOOL FOR COMMERCIAL PILOT LICENCE
90 Credit Hours  
Prerequisite: Successful completion of semester 3  
This course will provide the student with a practical knowledge of the required aviation subjects to meet Transport Canada standards for the Commercial Pilot licence. Subjects presented will include Canadian Aviation Regulations, meteorology, air navigation, radio navigation, aircraft engines, airframes, aircraft instruments, theory of flight and medical facts for pilots.

#### AF 412 ENGINES & SYSTEMS
75 Credit Hours  
Prerequisite: Successful completion of semester 3  
This course will provide the learner with an enhanced understanding of aircraft systems, engines, structures, flight controls and instrumentation in both simple and complex aircraft. AF412 provides the learner with a thorough foundation in turbine engines and their operation.

#### AF 414 INTRODUCTION TO IFR GROUND SCHOOL
48 Credit Hours  
Prerequisite: Successful completion of semester 3  
Co-requisite: AF 411  
This course is the first half of our IFR ground school, which will introduce the requirements of an Instrument Rating and IFR flight. In addition, it will introduce advanced avionics systems, approach systems, holds, as well as basic IFR procedures.
AF 416
FLIGHT TRAINING FOR CPL

75 Credit Hours
Prerequisite: Successful completion of semester 3
Co-requisite: AF 411, AF 450
This is a flight training course subsequent to the summer flight training. Night and tail-dragger training begins early in the semester and continues throughout. Advanced instrument training along with commercial level airwork and navigation continues in this semester and will further enhance the competence of the students, working towards the Transport Canada commercial flight test.

AF 430
AVIATION HERITAGE

45 Credit Hours
Prerequisite: Program Admission Requirements
The quest for higher, faster and further capabilities in aircraft is examined in AF 430. Students will follow the course of evolution in aviation from the origins of flight to the structure of the industry today. They will investigate the advancements, within a highly competitive environment, in design, manufacture and commercial development. The significant contributions to aircraft design as a result of the two World Wars will be identified.

AF 501
FIRST AID/CPR

30 Credit Hours
Prerequisite: Program Admission Requirements
On successful completion of this course, the student will be able to give basic first aid to passengers and crew in the event of a downed aircraft situation. As well he/she will be able to do heart saver CPR to revive a person who is not breathing.

AF 506
FLIGHT TRAINING FOR CPL

15 Credit Hours
Prerequisite: Successful completion of semester IV
Co-requisite: AF404, AF407, AF430, AF501, AF514, MA444, MK404
The flight training in this semester is to prepare the students for their commercial flight test. Instrument training is completed as well as the night flying for a night rating. Ski training is introduced and practiced along with wheel training on the C180 tail dragger aircraft. Airwork and navigation exercises are practiced to meet the criteria established for the college flight test as well as the Transport Canada flight test.

AF 514
IFR GROUND SCHOOL

45 Credit Hours
Prerequisite: Successful completion of semester 4
The focus of this course is the investigation and understanding of instrument flying. Students will examine IFR rules and procedures, consider weather criteria, and apply the contents of the Canada Air Pilot to various scenarios. Students should be in a position to write the Transport Canada IFR exam at the completion of this course.

AF407
FLIGHT SAFETY/ADVANCED HUMAN FACTORS

48 Credit Hours
Prerequisite: Successful completion of semester IV
AF407 will give the student a basic knowledge of the operating environment that can be expected upon entering the workforce, from both a safety and a human factor perspective.

AM 130
AIRCRAFT CONSTRUCTION AND SCIENCE

64 Credit Hours
Prerequisite: Program Admission
Students will be introduced to aerodynamics of fixed wing aircraft including an introduction to basic theory of flight in the standard atmospheres, temperature and pressure variations and standards, gas laws and Bernoulli’s principle, fluid dynamics, aerodynamic loads, flight controls and lift and anti-lift devices. Materials used in aircraft construction and repair will be examined. The student will become familiar with wood, steel, aluminum, plastics and types of corrosion.

AM 170
BASIC CIRCUITS

48 Credit Hours
Prerequisite: Program Admission
This course will introduce the student to Atomic Theory, Direct Current (DC), Alternating Current (AC), circuit types, semiconductors, and basic electronic components used in aircraft systems. Students will perform calculations of resistive, capacitive, and inductive circuits using the laws and theorems associated with electricity.

AM 171
BASIC CIRCUITS LAB

32 Credit Hours
Prerequisite: Program Admission
Co-requisite: AM 170
This course will introduce the student to Direct Current (DC), Alternating Current (AC), circuit types, semiconductors, and basic electronic components used in aircraft systems. Students will construct resistive, capacitive, and inductive circuits and execute experiments to understand electrical behaviour in each circuit type. Students will apply basic work safety practices in the shop environment.

AM 175
INTRODUCTION TO RECIPROCATING ENGINES

48 Credit Hours
Prerequisite: Program Admission
Students will be introduced to the basics of piston engine operation and maintenance, including engine development, principles of operation, engine construction, and overhaul procedures.

AM 176
INTRODUCTION TO RECIPROCATING ENGINES LAB

64 Credit Hours
Prerequisite: Program Admission
Co-requisite: AM 175
Students will learn reciprocating engine overhaul procedures in a shop environment, and adherence to shop safety standards. Engine overhaul will include disassembly, various inspection methods, cleaning and re-assembly using pertinent shop manuals. The student will conductled stud and bushing removals as well as spark plug inspection and cleaning.

AM 178
PRACTICAL AVIATION MATHEMATICS

48 Credit Hours
Prerequisite: Program Admission
This applied mathematics course provides an introduction to Imperial units used for length, velocity, weight, volume and temperature. Basic math operations will be reviewed. Emphasis will be placed on Imperial units throughout this course.

AM 194
STANDARD PRACTICES

64 Credit Hours
Prerequisite: Program Admission
Students will learn aircraft, hangar, and airport safety, including the applicable provincial and federal regulations, as well as, standard tools and practices of the aviation industry.
Course Descriptions

AM 195
STANDARD PRACTICES LAB
64 Credit Hours
Prerequisite: Program Admission
Co-requisite: AM 194
This program is currently going through the renewal process and the curriculum is subject to change. Please check website for course description.

AM 230
ADVANCED THEORY OF FLIGHT
48 Credit Hours
Prerequisite: Program Admission Requirements
This program is currently going through the renewal process and the curriculum is subject to change.

AM 270
POWER GENERATION & DISTRIBUTION
48 Credit Hours
Prerequisite: AM 170, AM 171
Co-requisite: AM 270
This program is currently going through the renewal process and the curriculum is subject to change.

AM 271
POWER GENERATION & DISTRIBUTION LAB
32 Credit Hours
Prerequisite: AM 170, AM 171
Co-requisite: AM 270
This program is currently going through the renewal process and the curriculum is subject to change.

AM 275
RECIPIROCATING ENGINES SYSTEMS
48 Credit Hours
Prerequisite: AM 175, AM 176, AM 170, AM 171, AM 178
Co-requisite: AM 276
This program is currently going through the renewal process and the curriculum is subject to change.

AM 276
RECIPIROCATING ENGINES SYSTEMS LAB
64 Credit Hours
Prerequisite: AM 170, AM 171, AM 175, AM 176, AM 178
Co-requisite: AM 275
This program is currently going through the renewal process and the curriculum is subject to change.

AM 280
ROTARY WING THEORY OF FLIGHT
32 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: AM 281
This program is currently going through the renewal process and the curriculum is subject to change.

AM 281
ROTARY WING THEORY OF FLIGHT LAB
32 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: AM 280
This program is currently going through the renewal process and the curriculum is subject to change.

AM 288
INTRODUCTION TO GAS TURBINE POWERPLANTS
32 Credit Hours
Prerequisite: TBA
This program is currently going through the renewal process and the curriculum is subject to change.

AM 294
STRUCTURES AND HARDWARE
48 Credit Hours
Prerequisite: TBA
This program is currently going through the renewal process and the curriculum is subject to change.

AM 345
AIRFRAMES THEORY
64 Credit Hours
Prerequisite: AM 206, AM 245, AM 246
Co-requisite: AM 346
Students will be introduced to various aircraft systems, their components and maintenance and the servicing of these systems. The material in AM 345 shall be delivered through classroom lecture, discussion demonstration and videos.

AM 346
AIRFRAMES SHOP
80 Credit Hours
Prerequisite: AM 206, AM 245, AM 246
Co-requisite: AM 345
Students will complete projects on aircraft control systems in accordance with applicable maintenance manuals, regulations and equipment and safe work practices. The students will also be introduced to composite materials, construction and repair of a composite structure. The material in AM 346 shall be delivered through demonstration, research, lecture, student presentations and participation in assigned projects.

AM 370
AIRCRAFT INSTRUMENTATION & RADIO SYSTEM
48 Credit Hours
Prerequisite: AM 270, AM 271
Co-requisite: AM 371
Students will cover selected aircraft instrumentation, flight and navigation systems. Antenna types, RFI suppression, and audio systems will also be studied. The material in AM 370 shall be delivered through classroom lecture, discussion, demonstration and movie or video presentation.

AM 371
BASIC AVIONICS - INSTRUMENTS & ELECTRONICS SHOP
48 Credit Hours
Prerequisite: AM 270, AM 271
Co-requisite: AM 370
The student will perform experiments to analyze AC circuit operation. Laboratory equipment will be evaluated while conducting experiments on transistor and rectifier circuits. Maintenance procedures will be carried out on magnetic compasses, pitot static instruments and systems. The material in AM 371 shall be delivered through practical hands on experiments and projects.

AM 374
PROPELLERS
32 Credit Hours
Prerequisite: AM 110, AM 175
Students will be introduced to the propeller terminology, propeller components and their functions within aircraft systems and the principles of propeller operation. Students will also identify the advantages and disadvantages of various propellers and their systems. Students will be introduced to maintenance practices, including methods to ensure correct operation of propellers. The material in AM 374 will be delivered through classroom lecture, discussion, demonstration and videos.
AM 375
RECIPIROCATING AERO ENGINES THEORY
32 Credit Hours
Prerequisite: AM 275, AM 276
Co-requisite: AM 376
The student will study advanced aircraft piston engine systems including fuel injection, supercharging and turbocharging. The material in AM 375 will be delivered through classroom lecture, discussion, demonstration and videos.

AM 376
RECIPIROCATING AERO ENGINES - SHOP
32 Credit Hours
Prerequisite: AM 275, AM 276
Co-requisite: AM 375
Students will carry out practical “hands on” exercises in the running of aircraft piston engines and maintenance of their systems. The student will gain access to information through publications and apply this information to maintenance tasks. The material in AM 376 shall be delivered by the “hands on” completion of projects assigned in class.

AM 380
HELICOPTER MAINTENANCE THEORY/SHOP
48 Credit Hours
Prerequisite: AM 280, AM 281
Applications of rotary wing principles and concepts will be reinforced using the Bell 206 JetRanger series helicopter, its main components, their location and function. The material in AM 380 shall be delivered through classroom lecture, discussion, demonstration, video presentation and student participation in assigned practical projects.

AM 388
GAS TURBINE AERO ENGINE THEORY
48 Credit Hours
Prerequisite: AM 288
Co-requisite: AM 389
Students will be introduced to basic construction, component design, and inspection maintenance and servicing of a gas turbine aero engine. The material in AM 388 shall be delivered through classroom lecture, discussion, demonstration and video presentation.

AM 389
GAS TURBINE AERO ENGINE SHOP
48 Credit Hours
Prerequisite: AM 288
Co-requisite: AM 388
Students will inspect components on the following engines: Pratt & Whitney PT6A-20 & 27, Pratt & Whitney JT15D, Allison 250 B15, C18, C20, Lycoming T53, Orenda 11A, and Rolls Royce Dart 506. The student will complete a technical report on a hot section inspection on a PT6A-20 or 27 engine. The student will conduct a complete performance run on an Allison 250 B15G engine. The material in AM 389 shall be delivered through shop projects completed by each student.

AM 445
CANADIAN AVIATION REGULATIONS
36 Credit Hours
Prerequisite: AM 111
The student will study sections of Canadian Aviation Regulations relevant to aircraft maintenance. The student will make an in-depth study of those chapters of the Canadian Aviation Regulations (CAR’s) vital to personnel involved in aircraft maintenance. The material in AM 445 shall be delivered through classroom lecture, discussion and video presentation.

AM 446
AIRFRAMES SHOP
126 Credit Hours
Prerequisite: AM 345, AM 346
The student will complete practical “hands-on” projects designed to enable the student to apply the theory developed in previous semesters. Emphasis will be placed on completing the required tasks in accordance with applicable maintenance manuals, regulations, and equipment using safe work practices. The material in AM 446 shall be delivered through lecture, discussion, demonstration, videos, and student participation in assigned practical projects.

AM 471
AVIONICS MAINTENANCE PROCEDURES
72 Credit Hours
Prerequisite: AM 370, AM 371
Co-requisite: AM 470
The student will practice maintenance procedures on aircraft electrical, instrument and radio systems. Students will service batteries, carry out functional tests on systems and gain familiarity with documentation and procedures that apply to these systems. Scheduled inspections and servicing of systems will be carried out. The material in AM 471 shall be delivered through practical hands-on projects.

AM 476
RECIPIROCATING ENGINES LAB/SHOP
54 Credit Hours
Prerequisite: AM 376
The student will practice maintenance procedures on aircraft piston engines. The student will complete a series of self-briefing, realistic shop projects on aircraft piston engines, their systems and components. Emphasis will be placed on carrying out required tasks in accordance with applicable maintenance manuals, using proper and safe work practices, appropriate test equipment and application of relevant regulatory requirements. The material in AM 476 shall be delivered through completion of practical projects.

AM 480
HELICOPTER MAINTENANCE THEORY
18 Credit Hours
Prerequisite: AM 380
Students will be introduced to the Human Factors aspects of working and living conditions associated with helicopter operations in Canada. Students will receive a familiarization with the MD 369D helicopter, along with other topics relevant to helicopter operation, safety and maintenance. Human performance in aviation maintenance will also be covered in this course. The material in AM 480 shall be delivered through classroom lecture, discussion, demonstration, and case study and video presentation.

AM 488
GAS TURBINE AERO ENGINE THEORY
18 Credit Hours
Prerequisite: AM 388, AM 389
Co-requisite: AM 489
The students in AM 488 will study inspection/servicing and engine performance checks of a turbine engine. The material in AM 488 shall be delivered through classroom lecture, discussion, and demonstration.
**AM 489 GAS TURBINES AERO ENGINE SHOP**
72 Credit Hours  
Prerequisite: AM 388, AM 389  
Co-requisite: AM 488  
The students in AM 489 will inspect and complete maintenance servicing on Pratt & Whitney PT6A-20 and 27, Allison 250-C20 engines and components. The student will conduct a complete performance run on a PT6A-20 or 27 engine. The student will complete a hot section inspection on a PT6A-20 or 27 engine. The material in AM 489 shall be delivered through practical projects.

**AM294 STRUCTURES AND HARDWARE**
48 Credit Hours  
Prerequisite: TBA  
This program is currently going through the renewal process and the curriculum is subject to change.

**AM295 STRUCTURES AND WEIGHT & BALANCE LAB**
64 Credit Hours  
Prerequisite: TBA  
This program is currently going through the renewal process and the curriculum is subject to change.

**AN 101 SOUND FOR ANIMATION I**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Students will study the foundation of sound production theory as it applies to animation. Directing voice acting and foley sound effects, engineering, acoustic theory and asset management will be topics covered during the course.

**AN 102 DIGITAL ANIMATION PRINCIPLES**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The animation industry has changed considerably since the dawn of digital art; however, the core concepts have stayed the same. Throughout this course students will analyze story, character design, environmental design, motion and timing. Lab exercises will help to hone mechanical skills while pre-production meetings will define the student’s yearlong project.

**AN 103 STORYTELLING**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Animation provides a storyteller with a limitless medium in which to convey compelling and entertaining ideas. This course provides the learner with a holistic understanding of the storytelling processes. Topics discussed will include creative writing, script creation, motion, timing, acting and movement.

**AN 104 PRE-VISUALIZATION**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
It is critical that animators know how an animated sequence is designed to develop a plan of execution. Pre-visualization allows the animator to see a low-resolution, rapid prototype of an animation before final execution. This course will discuss storyboarding, X-sheets, Dope sheets and animatics.

**AN 105 ILLUSTRATION FOR ANIMATION I**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Computers simply cannot replace the creative and expressive qualities demonstrated by the human hand. Drawing is the most important skill an animator can have and this course will enhance the student’s ability to see, predict and produce art requirements of their animation. Topics will include life drawing, cartooning and rotoscoping.

**AN 106 MEDIA BUSINESS MANAGEMENT**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The skills, knowledge and attitude of the entrepreneur have a significant impact on the success of a venture. This course focuses on the development of skills that will contribute to the personal effectiveness of a business owner. Self-awareness will be used as a foundation for the design of self-development strategies to achieve personal growth.

**AN 201 DIGITAL ANIMATION PRODUCTION**
90 Credit Hours  
Prerequisite: AN 102  
Students will execute an animation major project using industry workflow and execution. Topics will include animation skill building, the animation pipeline and project management. This course will allow the visual story teller to produce a short film using the latest in film, video or digital drawing equipment and methodology.

**AN 202 ILLUSTRATION FOR ANIMATION II**
45 Credit Hours  
Prerequisite: AN 105  
This course will be a continuation of Illustration for Animation II, moving the student into the production of digital drawings using popular software and drawing tablets. As students hone their skills they will explore life, gesture, cartoon and technical drawing techniques.

**AN 203 SOUND FOR ANIMATION II**
45 Credit Hours  
Prerequisite: AN 101  
This course will be a continuation of Sound Production I. Students will enter the sound recording environment to produce voice acting and sound effects for their animation major project. Topics covered will include voice acting, sound effect production, digital recording workflow, and post-production techniques.

**AN 204 VISUAL EFFECTS**
45 Credit Hours  
Prerequisite: AN 104  
Visual effects allow an animator to create effective illusions that enhance the overall animation experience. Topics covered will include particle systems, volumetric systems, rotoscoping, motion tracking, chroma key techniques, camera tracking, color grading and compositing.

**AN 205 COLOUR STRATEGIES**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The animation pipeline often requires the consistent application and management of color. This course will focus on the creation of colour keys, advanced colour theory, digital colouring and grading.
Course Descriptions

AS 110  MANAGING MEDIA IN THE INFORMATION AGE
45 Credit Hours
Prerequisite: Program Admission Requirements
This course provides an introduction to how knowledge is produced, organized and assessed in the Information Age. With an emphasis on critical thinking, students will become aware of the influences of various media and learn how to locate and evaluate sources including print, electronic, audio and video sources – especially the Internet. Students will also learn how to make the best use of the vast array of information available when conducting research, as well as how to organize and present various types of information in a variety of contexts.

AS 210  LEADERSHIP IN ACTION
45 Credit Hours
Prerequisite: Program Admission Requirements
This introductory course will address both traditional and contemporary leadership theories and principles. The styles of some notable leaders who have used their leadership skills to promote social change will be examined. Students will construct their own definition of leadership and determine their own leadership style from a variety of interactive tools. Ethics, values, integrity and other personal qualities of leaders will be combined with effective leadership skills to inspire and influence others at all organizational levels. Students will have an opportunity to apply their knowledge and skills in a project that is intended to assist our community.

AS 220  WELLNESS FOR LIFE
45 Credit Hours
Prerequisite: Program Admission Requirements
The physical, emotional, social, intellectual, and spiritual dimensions of health are the focus of this course. Students will be provided with current factual information about a broad range of health-related issues including stress, substance abuse, sexuality, fitness, weight management, environmental concerns, and death and dying. As well, students will be actively involved in examining the impact of lifestyle choices upon their own health status.

AS 287  HUMAN SERVICES CAREER EXPLORATION AND READINESS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will prepare students for program-related work experience and employment. Students will create a toolbox of skills that enable them to adapt to the challenges of the evolving workplace and learn to apply best practice strategies and techniques to attain their career aspirations. This course will have a specific focus on the exploration of careers in human service sector to assist the student to refine career preparation strategies.

AS 288  INTERPROFESSIONAL COLLABORATION FOR HUMAN SERVICES
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will prepare students to be active contributing members in professional team settings. Students will develop an understanding of team dynamics and an ability to demonstrate healthy team communication strategies. Students will garner and understanding of the progressive and dynamic nature of Interprofessional Collaboration and their role within it. This course will also provide an overview of various professional roles that may be involved in the human services sector. Students will have the opportunity to apply skills learned in a practical manner.

AS 289  SELF-REFLECTIVE PRACTICE AND THERAPEUTIC RAPPORT
45 Credit Hours
Prerequisite: Program Admission Requirements
The students will acquire the skills to express architectural ideas, concepts and material presentations on paper. For this purpose, they will complete various drawing exercises involving simple geometric forms, basic architectural graphics, construction of perspectives, shades and shadows and entourage (elements of landscaping) using pencil, felt pen and colour crayon techniques. In the second part of the course, the student will create basic computer-generated 3-dimensional shapes and architectural presentation drawings.

AS 330  EFFECTIVE WORKPLACE SKILLS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to help the student develop good working and personal relationships. The student will be able to understand the importance of delivering service excellence to the customer, co-workers, the employer and themselves. The focus will be on practicing techniques that strengthen these relationships.

AT 300  ARCHITECTURAL DRAFTING AND DESIGN (RESIDENTIAL)
60 Credit Hours
Prerequisite: Successful completion of Semesters 1 & 2
The study of architectural drafting techniques that will enable the student to prepare basic architectural working drawings for a light wood frame residence conforming to the Ontario Building Code and zoning regulations. The application of the principles of descriptive geometry to the development of architectural drawings.

AT 301  PRESENTATION TECHNIQUES (HAND DRAWN)
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2
The students will acquire the skills to express architectural ideas, concepts and material presentations on paper. For this purpose, they will complete various drawing exercises involving simple geometric forms, basic architectural graphics, construction of perspectives, shades and shadows and entourage (elements of landscaping) using pencil, felt pen and colour crayon techniques. In the second part of the course, the student will create basic computer-generated 3-dimensional shapes and architectural presentation drawings.

AT 302  MATERIALS AND METHODS II
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2
A study of materials used with heavy construction methods, related to site development, deep excavation work, foundations; concrete, structural timber and steel, floor and roof systems; masonry construction, curtain wall construction; exterior and interior finishing. Laboratory work includes construction design drawing, and testing of various building components, field trips to local manufacturing plants and construction projects.
Course Descriptions

AT 303 Ontario Building Code I
30 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
This course presents an overview of the Ontario Building Code, the municipal building by-law and the municipal zoning by-law. Emphasis is given to Part 9 Housing and Small Buildings. The course will provide a basic understanding and working knowledge of the regulations that apply to the construction of buildings in Ontario.

AT 304 Architectural Design I
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
This course is designed to familiarize the student with basic architectural design procedures, the application of building code requirements and application of municipal codes, by-laws and regulations. The student will prepare a preliminary, and a final set of presentation design drawings for a single family residence. The student will also provide an architectural model of the design and make a verbal presentation of the design to the “client”.

AT 305 Introduction to Revit
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
This course will provide the student with the ability to use discipline-specific software for architectural design. Revit for Architecture is used by architectural designers to increase productivity and competitiveness. The transition between major phases in the design process can be made without interruption. Conceptual design, design development, and the production of construction documents are streamlined by re-using information and by applying features designed specifically for this process.

AT 402 Architectural Project Lab
60 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3
Development of CAD architectural working drawings for a structural steel frame building with open web steel joists and metal deck roof. The building exterior will be clad in unit masonry and EFIS (stucco) with appropriate construction detailing being understood. The project will meet the requirements of the local zoning by-law as well as the Ontario Building Code. The use of the proposed building will be chosen by the student.

AT 408 Architectural Design II
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3.
The study of architectural drafting techniques that will enable the student to prepare basic architectural working drawings for a light wood frame residence conforming to the Ontario Building Code and zoning regulations. The application of the principles of descriptive geometry to the development of architectural drawings.

AT 410 Mechanical & Electrical Systems I
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3.
An introduction to building services through the study of plumbing, heating, ventilation, air conditioning, electrical supply and distribution for residential buildings. Design and drafting exercises using CAD.

AT 412 History of Canadian Architecture
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3
The course will start with the arrival of the Europeans to this continent and progress to the present. Through this course the students will be introduced to the residential structures of the many first nations that were encountered by the explorers. The progression to modern architecture and the search for “Canadian Architecture” will complete the course. This course will also have a strong local component that will encourage the students to appreciate and understand the community as it exists today and thus explore the opportunities for positive change.

AT 501 Architectural Lab II
60 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4
Preparation of CAD architectural working drawings for a “light steel frame building” cad in masonry/concrete and glass curtain wall materials. The drawing set will include the development of structural framing drawings. Examination and application of regulations under the requirements of the Ontario Building Code and municipal zoning by-laws. In this course the use of the building will be assigned to the student to simulate the real life conditions of a design office. The student will research the needs of the proposed client and develop a design program.

AT 503 Architectural Design II
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
Introduction to a complex architectural project involving a variety of elements of construction. A design project related to a structural steel system. Review of various rendering techniques. The study of zoning and building code regulations for a medium-size commercial building. Development of computerized presentation drawings. Production of a detailed realistic model for the design.

AT 505 Working Drawing Detailing
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
An advanced course in the architectural detailing of building components dealing with the examination and development of details associated with site plans, building envelope performance and durability; roofs, walls and windows, window systems, the interfacing of details for durability, vertical occupant circulation assemblies and expansion and contraction in buildings. Details will also be evaluated under the requirements of the Ontario Building Code, fire-resistance ratings of assemblies and building products manufacturers’ recommended details.

AT 600 Interior Design
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
The student will be introduced to the elements of interior space planning, furnishing and equipment placement for specific occupational environments in commercial buildings. Presentation drawings and material sample displays will be produced manually and by CAD or REVIT.

AT 602 Mechanical & Electrical Commercial
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
Students will be provided with a basic understanding of the integration of mechanical and electrical systems in the design and construction of a building including such issues as control of indoor environment conditions; life safety and fire protection; mechanical and electrical utilities and services; and energy utilization. Students will be introduced to aspects of the design and construction process and will produce CAD/REVIT drawings for a small commercial building.
Course Descriptions

AT 604
ARCHITECTURAL LAB III
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
Preparation of CAD architectural working drawings and selected structural drawings for a multi-storey in-situ building. The structural elements of the building vary with precast concrete floor and roof panels being the focus of this project. The building will be clad in a combination of masonry/curtain wall and precast concrete finishes. The building will house both commercial and residential occupancies with one of the residential units being totally accessible. Examination and application of regulations under the requirements of the Ontario Building Code and municipal zoning by-laws.

AT 606
RENOVATIONS AND RESTORATION
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
Study of the ways and methods of renovation, recycling and updating existing buildings. Function analysis and preparation of proposals for new use. Restoration of historical features for heritage buildings. Examination of code requirements and municipal regulations affecting the proposed renovation. Case study of an existing building in the city involving the production of as-built drawings and presentation drawings for proposed renovation.

AT 608
CONTRACT ADMINISTRATION AND SPECIFICATIONS
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
This course will teach the student to interpret and apply contract documents and regulations as they apply to designing, tendering and building a construction project. The student will prepare a set of specifications for a recently completed in AT 501.

AT 610
ESTIMATING II COMMERCIAL PROJECT LAB
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
This course will expose the student to the issues of preparing an estimate for a commercial structure. Building on CE06 the student will apply the principles of Quantity Surveying as outlined by the Professional Quantity Surveyors (PQS). This method of project costing and budget tracking is used by the design professionals. The students will understand Class C, B and A estimates and will be able to assist in the preparation of these estimates in an office environment.

BM 108
HOSPITALITY MATH
45 Credit Hours
Prerequisite: Program Admission Requirements
This course provides the learner with an introduction to basic mathematical skills required in the Hospitality program. Upon completion of the course, learners will be able to apply their knowledge of basic numeric operations, principles of cost control, yield factors, recipe conversions and basic hospitality accounting systems to the many jobs in the food service and hospitality industry.

BM 109 (*OL equivalency: OL159)
CULINARY MATHEMATICS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course reviews numerical and computational skills which are applied to business concepts and procedures in buying and selling, break-even analysis, financial statements and types of business ownership.

BT 125
TECHNICAL OPERATIONS I
45 Credit Hours
Prerequisite: Program Admission Requirements
Students will demonstrate the technical theory required to operate analog and broadcasting production and measurement equipment.

BT 126
CAMERA & VISUAL STORYTELLING
90 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: BT 127 & BT 128
All effective television production involves good storytelling. In Camera and Visual Storytelling, students will shoot videotape and digital stills, and use video editing and image manipulation techniques to communicate a visual story that is aesthetically pleasing and technically sound.

BT 127
INTRO TO STUDIO OPERATIONS AND PRODUCTION
60 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: BT 126 and BT 128
Introduction to Studio Operations and Production will offer a ‘first look’ at the basic tools and process of Television production and the aesthetic considerations involved in the production process. Workshops will describe the function and operation of various technical elements such as cameras, lighting, audio and video recording etc. Students will translate theory into practice by operating television equipment and producing basic television productions.

BT 128
SCRIPTWRITING I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: BT 126 & BT 127
Students will explore industry production conventions and formats to use creatively in the development of various types of communication messages and television scripts.

BT 225
TECHNICAL OPERATIONS II
45 Credit Hours
Prerequisite: BT 125
Technical Operations II is a continuation of semester one’s technical theory as required to operate the analog and digital broadcasting production and measurement equipment found in today’s industry.

BT 226
TELEVISION STUDIO, LOCATION AND MOBILE PRODUCTION
60 Credit Hours
Prerequisite: BT 127
Television production takes place in many environments: in a fully equipped studio, on location with a single camera, and in the field using a multi-camera mobile facility. Television Studio, Location and Mobile Production will challenge students to create effective and entertaining television communication and programming in all of these environments.

BT 227
VIDEO JOURNALISM
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: BT 230
The world of news coverage has changed and a reporter’s field toolkit now includes a video camera and often a laptop computer. Video Journalism will encourage students to research story ideas, conduct the interviews, complete videography, lighting, sound, editing, script and narration or on-camera performance as required to create news stories that are interesting and resonate with the viewer.
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Course Descriptions

**BT 229**  
**SCRIPT WRITING II**  
45 Credit Hours  
Prerequisite: BT 128  
In Script Writing II, students will use their knowledge of industry production conventions and formats and their creativity to develop various types of television programming scripts, including a pilot script for a television series.

**BT 230**  
**NON-LINEAR EDITING**  
45 Credit Hours  
Prerequisite: BT 126  
Co-requisite: BT 227  
Non Linear Editing will build on knowledge and skills developed in the Camera and Visual Storytelling course. It will challenge students to further develop their editing skills by designing effective and creative post-production as they manage various non-linear editing platforms. The course will deal with technical and aesthetic considerations including paper edits and edit decision lists, pacing and timing, the use of transitions, how to use music, sound effects and narration.

**BT 324**  
**AUDIO PRODUCTION AND POST PRODUCTION**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: BT 325, BT 326  
Students will recognize audio as a critical communication component in effective video production. Creating and designing sound that will enhance the theme and message of a production will be explored.

**BT 325**  
**DOCUMENTARY PRODUCTION**  
45 Credit Hours  
Prerequisite: BT 227, BT 230  
Co-requisite: BT 324, BT 328  
In Documentary Production, students will examine the unique genre of the documentary while focusing on scriptwriting, camera, lighting, sound, editing and business management techniques. Students will produce a high-quality, short-form television documentary or feature.

**BT 326**  
**SERIES (PILOT) PRODUCTION**  
60 Credit Hours  
Prerequisite: BT 229, BT 230  
Co-requisite: BT 324, BT 328  
Students will develop a pilot (one episode) program for a proposed television series. Possible funding sources for series production will be explored.

**BT 328**  
**POST PRODUCTION I**  
45 Credit Hours  
Prerequisite: BT 230  
Co-requisite: BT 325, BT 326  
This course provides students with an opportunity to utilize advance editing and compositing techniques. With the use of these techniques, a more effective and creative design for visual communication will be developed.

**BT 423**  
**MEDIA MANAGEMENT**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Students will examine the historical development of the Canadian telecommunications industry and explore specific roles, processes, issues and structures that impact on media management and media communication.

**BT 424**  
**POST PRODUCTION II**  
45 Credit Hours  
Prerequisite: Minimum "C" grade in BT 328  
Co-requisite: BT 426  
In Post Production II, students will design effective and creative visual communication utilizing compositing and broadcast design techniques.

**BT 425**  
**INTERNSHIP**  
144 Credit Hours  
Prerequisite: Eligible to graduate, minimum "C" grade in BT 325, BT 326, BT 328, BT 424, and BT 426, and recommendation by Program Coordinator.  
Students will apply theoretical knowledge, skills and attitudes gained in the Television Production Program to real world applications by completing a four-week Internship at the end of their fourth semester.

**BT 426**  
**COMMUNITY PRODUCTION PROJECT**  
80 Credit Hours  
Prerequisite: Minimum "C" grade in BT 325 and BT 326  
Co-requisite: BT 424  
In the Community Production Project course, Television Production students will work with a community group or ‘client’, to plan and produce informational or promotional video projects that meet specific communication objectives and demonstrate quality production standards.

**BT 429**  
**MARKETING FOR TELEVISION**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Students will explore the role of marketing and promotions in the electronic media landscape and apply marketing and advertising skills and knowledge to specific projects.

**CA 101**  
**CRITICAL READING AND MEDIA LITERACY**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Students will apply theoretical knowledge, skills and attitudes gained in the Television Production Program to real world applications by completing a four-week Internship at the end of their fourth semester.
CA 103
PERSONAL MANAGEMENT AND CAREER PATHWAYS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course provides opportunities for you to develop the personal and interpersonal skills needed to succeed in future post-secondary studies. Working within a framework of goal-directed learning and self-evaluation, you will be encouraged to become an active participant in the learning process and, ultimately, to become an empowered, independent learner. An examination of learning styles and preferences, student rights and responsibilities, effective personal management strategies, interpersonal communication skills, and personal wellness provide you with a foundation for pursuing your future studies confidently. Career exploration and career planning exercises and activities serve as a basis for making informed career decisions and for establishing a personal learning pathway.

CA 201
CRITICAL READING FOR ACADEMIC PURPOSE
45 Credit Hours
Prerequisite: CA101
Building on concepts explored in CA101, Critical Reading and Media Literacy, this course stresses the role of the critical reader as an active participant in the learning process. An exploration of literal and interpretive reading strategies, complemented by an investigation of practical approaches to reading for academic purposes, provides opportunities for you to develop the skills necessary to read purposefully in other post-secondary programs.

CA 202
ESSENTIAL COLLEGE MATHEMATICS II
60 Credit Hours
Prerequisite: CA 102
In this course you will continue to extend your understanding of fundamental mathematics. Applying the skills developed in CA102, Essential College Mathematics I, you will be invited to explore a range of mathematical concepts and to consolidate approaches to solving mathematical problems.

CA 203
CONTEMPORARY ISSUES AND THE MEDIA
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: TP236 and CA201
This course provides opportunities to develop an informed, critical awareness of the role the media plays in shaping views. You will be invited to consider the commercial implications of media production, the values associated with media messages, and the credibility of sources. A range of media issues will be examined within a framework of applied critical thinking and ethics. Issues explored in this course will provide a basis for linked course research in TP236- Writing Strategies, Communications II and CA201- Critical Reading for Academic Purposes.

CA 204
COMMUNITY CONNECTIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course invites you to relate a personal understanding of values, beliefs, and identity both to an examination of the social, cultural, and political aspects of communities and to an investigation of community issues and resources. An exploration of interpersonal communication strategies provides a framework for interacting with others in course-related activities and in an inquiry-based group assignment and presentation.

CC 150
PRINCIPLES OF CORPORATE COMMUNICATIONS
45 Credit Hours
Prerequisite: None
This course provides an overview of the concepts and principles of the corporate communications field, examining the critical role of communications in the private and public sector. Students study the impact of corporate culture on the communications process and learn strategies to enhance communications within corporate or organizational structures. Students also examine ethical and legal issues relating to the corporate communications field.

CC 151
WRITING FOR CORPORATE COMMUNICATIONS I
45 Credit Hours
Prerequisite: None
The corporate communications writer is an advocate for an employer/client, and must be able to write accurately and creatively in a wide range of styles, considering all possible outcomes of proposed messages to all relevant publics. In this course, students will develop corporate communication writing skills to produce clear, concise, effective, and targeted written material incorporating key messages for different audiences. Learners will produce and edit a variety of documents including brochures, e-mails, memos, letters, newsletters, feature articles, and web material for external and internal audiences. This course will also encourage students to eliminate grammatical errors, wordiness, and stylistic barriers from their writing.

CC 152
MEDIA RELATIONS
45 Credit Hours
Prerequisite: None
This course provides a comprehensive introduction to the news media and the art of building positive relationships with the media. Students will learn how to prepare various media materials for print and broadcast. Practical applications include preparing a media plan, designing organizational training for interacting with media, and practice conducting a press conference.

CC 153
COMMUNICATION PLANNING I
45 Credit Hours
Prerequisite: None
A communications plan can contribute to the achievement of an organization's goals and objectives. The success of a communications plan is based upon its strategic design and development, but also upon the internal and external environments in which it is implemented. This course leads students through the processes of implementing a strategic communications plan, taking into account the practices of key decision makers and both internal and external environmental changes. Through research, analysis and discussion, students will learn the roles of senior management in the communications planning process. Students will learn how to monitor and evaluate the potential success of a communications plan using research techniques. After examining various measurement strategies, students will develop specific plans to update and amend communication strategies according to demand.

CC 154
GRAPHIC/WEB DESIGN AND PRINT PRODUCTION
45 Credit Hours
Prerequisite: None
This course provides skills needed for the successful planning and implementation of web and print communication strategy. Through environmental scanning and process planning, the student will gain awareness of Internet and print based issues and opportunities so they can successfully design, manage, and ultimately implement both a print publication and website.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisite</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 155</td>
<td>INTRODUCTION TO COMMUNICATIONS AND MARKETING</td>
<td>45</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>CC 250</td>
<td>WRITING FOR CORPORATE COMMUNICATIONS II</td>
<td>45</td>
<td>CC 151</td>
<td>The corporate communications writer is an advocate for an employer/client, and must be able to write accurately and creatively in a wide range of styles, considering all possible outcomes of proposed messages to all relevant publics. In this course, students will build on corporate communication writing skills learned in Writing for Corporate Communications (I) to produce clear, concise, effective, and targeted written material incorporating key messages for different audiences. Students will apply key elements of purpose, audience, strategy, medium, and style to essential corporate communications messages. Learners will produce and edit a variety of documents including brochures, feature articles and reports/proposals. This course will also require students to eliminate grammatical errors, wordiness, and stylistic barriers from their writing and to use sophisticated, analytical thinking for communication projects.</td>
</tr>
<tr>
<td>CC 251</td>
<td>COMMUNICATION PLANNING II</td>
<td>45</td>
<td>CC 153</td>
<td>A successful communications plan contributes to the achievement of an organization’s mission and guides the implementation of key strategies. Strategic communications plans are developed based on their environment and also facilitate change of that environment. This course leads students through the process of devising and implementing a strategic communications plan, taking into account corporate communications practices. Through research, analysis and discussion, students will develop an understanding of audiences and key messages for public awareness, social marketing or education campaigns. Students will write goals and objectives that will shape the plan and address identified needs. After examining various communications tools and resources, students will develop specific strategies to meet goals and objectives and create a plan budget.</td>
</tr>
<tr>
<td>CC 252</td>
<td>CRISIS COMMUNICATIONS</td>
<td>45</td>
<td>None</td>
<td>This course provides an overview of crisis communications and crisis management principles, and their roles in organizational planning strategies. Students study the potential impact of crises situations on small and not for profit organizations to the global and multi-national corporation and learn strategies for reactive and pro-active crisis communications planning. The course provides specific and practical information, models, and approaches for those involved in crisis management and crisis communications management functions.</td>
</tr>
<tr>
<td>CC 253</td>
<td>CORPORATE COMMUNICATIONS SEMINARS</td>
<td>45</td>
<td>None</td>
<td>In this course, students will learn and apply the skills required to research, plan, execute and evaluate corporate communication events. Students will also practice public speaking techniques and learn how to incorporate visual aids into presentations. Students will prepare an event proposal which includes all elements of communication event planning. Working as a team, students will prepare and implement an event.</td>
</tr>
<tr>
<td>CC 254</td>
<td>FIELD PLACEMENT</td>
<td>120</td>
<td>Minimum C average for two semesters</td>
<td>Students will have the privilege of being placed in select businesses/organizations for four weeks, based on individual interests and subject to approval by the Corporate Communications program coordinator. The placement businesses must have a communications department and a communications practitioner or manager, and/or be involved in day to day activities such as fundraising, advertising, marketing, design and promotions. The students will be exposed to communication routines and procedures of the different companies and professions. As well, students will have the opportunity to observe and apply classroom skills in real business situations. Students will be required to complete a full report of their observations and activities. Employers also complete reports evaluating the performance of their student.</td>
</tr>
<tr>
<td>CC 255</td>
<td>COMPUTER AIDED DRAFTING</td>
<td>30</td>
<td>Program Admission</td>
<td>None</td>
</tr>
<tr>
<td>CE 125</td>
<td>CONSTRUCTION MATERIALS &amp; METHODS</td>
<td>45</td>
<td>Program Admission</td>
<td>None</td>
</tr>
<tr>
<td>CE 130</td>
<td>SURVEYING</td>
<td>45</td>
<td>Program Admission</td>
<td>None</td>
</tr>
<tr>
<td>CE 140</td>
<td>BASIC DRAFTING</td>
<td>30</td>
<td>Program Admission</td>
<td>None</td>
</tr>
</tbody>
</table>

The student also learns to work from the hard drive, back up files and set the parameters necessary to produce the desired plotted output. This course is designed to introduce the students to the tools, calculations, and methods of surveying as related to architecture, engineering and construction. Students will use steel tape, automatic level, laser level, electronic theodolite, and the total station to measure and layout design features. This course introduces the learner to the fundamentals of basic manual drafting: types of construction drawings, use of drawing instruments, lettering, linework, scales, applied geometry, orthographic projection, dimensioning, sectional views, auxiliary views and pictorial drawing. Drawing skills are further developed to solve three-dimensional space problems employing the principles of orthographic projection.
Course Descriptions

CE 208
SURVEYING II (SPRING TERM)
45 Credit Hours
Prerequisite: CE 130
This course will introduce the student to the application of the total station; field data capture requirements, interfacing with a computer, and production of a topographical drawing using AutoCAD’s Civil 3D software. An introduction to Geographical Information System (GIS) and Global Positioning Systems (GPS) is also presented. The course is offered as a Spring Field School immediately upon the completion of the second semester in order that students may bring these skills to their first summer of employment in the program.

CE 240
CONSTRUCTION DRAWING
45 Credit Hours
Prerequisite: CE 140, CE 125
An introduction to the preparation and interpretation of various types of technical drawings associated with the construction industry through the development of a set of residential working drawings. The student will apply basic drafting techniques to develop and interpret working drawings using appropriate drawing standards and conventions.

CE 303
HEAVY CONSTRUCTION
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
The student will be introduced to the principles and practices of heavy (Civil Engineering) construction. The course will include the topics of estimating and improving productivity, construction safety and equipment capabilities.

CE 306
QUANTITY SURVEYING & ESTIMATING
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
Quantity surveying and estimating is the process that is used in determining the probably construction costs for a given project. The student will learn how to measure and organize the data from drawings and specifications on a construction project into a comprehensive list of quantities ready for pricing. The student will then learn how to create an estimate of costs from this list through the application of unit prices and elemental cost analysis thus preparing the basis for an accurate tender on a construction project.

CE 307
COMPUTER APPLICATIONS IN CIVIL ENGINEERING
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
The students will receive hands-on experience using AutoCAD’s Civil 3D. Students will learn the basic of drawings set up and point management. Sample data will be used to generate topographic surfaces used as the basis of development design. The course will culminate with the use of topographic data to calculate volumes of excavation or stockpiles.

CE 401
WORK EXPERIENCE
45 Credit Hours
Prerequisite: Program Admission Requirements
Upon completion of this course, students will have had experience in a typical Engineering Technologist work environment. They will have been exposed to duties of a technologist and will have assisted with those duties.

CE 402
HIGHWAYS I
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3.
This first course in highway design will concentrate on vertical and horizontal alignments. The effect of alignment on earthwork quantities will be examined using computerized calculation techniques. The basics of traffic engineering will be considered as an input into the geometric design process.

CE 404
HYDRAULICS
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3.
This course is designed as a practical introduction to the study of fluid mechanics as it applies to Civil Engineering Technology. The student will gain knowledge of the properties of fluids, hydrostatics, buoyancy and relative equilibrium of liquids, and pressure flow. Commercial software will be used to assess and investigate orifices and weirs, pressure flow and pressure piping systems.

CI 301
SURVEYING III
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
This course will require students to work in groups to collect topographic information on an extensive plot of land. The students will use this data later in the program as the basis of a municipal design project. The course will run primarily on a self-directed basis with only one hour of instructor contact per week. The magnitude of the assignment may require students to work on weekends.

CI 307
HYDROLOGY
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
This course is a continuation of CI 325. The student will study the nature of gravity flow in pipes, open channels and culverts using computer techniques. This will be based upon the principles of the hydrological cycle to determine flood/design flows. As part of these studies, students will consider the effects of this flow on erosion and sediment and storm water quantities and quality.

CI 313
SOILS I
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed as a practical introduction to the study of soil mechanics. The student will gain knowledge of the characteristics of soils, phase relationships, soil classification, elementary flow nets, effective stresses, and shear strength. The student will perform formal laboratories involving the Atterberg Limits, relative density, permeability, compaction, grain size analyses, shear and compression of soils.

CI 404
SOILS II
45 Credit Hours
Prerequisite: CI 313
This course is designed as a continuation of Soils I CI 313. The student will gain knowledge of methods of determining subsurface stresses, of consolidation theory and testing, of calculating settlement of structures, of shear strength theory and testing, and of pressures and forces on retaining walls.
CI 503
ENVIRONMENTAL I
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
This course focuses on the legal, ethical and moral issues associated with Civil Engineering and its impacts on the environment. A close examination will be made of the Environmental Assessment process including socio-economic effects. Students will also review Official Plan and Zoning controls from the perspective of their efforts to protect natural heritage resources.

CI 509
HIGHWAYS II
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
This course focuses on the topic of the structural design, evaluation and efficient maintenance of pavements. Attention will be paid to the various materials used to make up the pavement structure. A detailed assessment will be made of the Ontario Provincial Standard (OPS) Specifications and Drawings as used in the preparation of contracts.

CI 511
GEOGRAPHICAL INFORMATION SYSTEM (GIS)
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
This course will introduce the student to the use of Geographic Information Systems and their use as repositories of data used in Civil Engineering planning and design. Data to be studied will include geological, zoning and planning information as well as satellite imagery and municipal infrastructure.

CI 600
MUNICIPAL DESIGN
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4, & 5.
In this course the student will be presented with an overview of the following areas of study: legislation relating to municipal engineering, development policies and procedures, storm and sanitary sewer design, water distribution system design. Students will use current software to prepare designs and drawings.

CI 602
MUNICIPAL PROJECT, SPECIFICATIONS & CONTRACTS
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4, & 5.
This group project represents the capstone project in the area of municipal servicing design. Students will use data collected in Surveying III and principles taught in a number of other courses to prepare a design for a subdivision. The project will include the preparation of a design brief (formal report) and a full set of contract drawings, documents and specifications.

CI 606
ASSET MANAGEMENT
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4, & 5.
This course will introduce the students to the principles of effective management of Civil Engineering Infrastructure. Students will learn the principles of asset assignment, performance modeling, maintenance and rehabilitation. Students will study the economic effects of deferred maintenance strategies.

CI 616
ENVIRONMENTAL II
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4, & 5.
This course will introduce the student to environmental concerns. These will include: water treatment, waste water treatment, on-site sewage disposal, groundwater movement and supplies, landfill design and monitoring, and watershed management.

CI 618
FOUNDATIONS
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4, & 5.
This course introduces the student to procedures involved in assessing the stability of structures on and in the supporting soil, as well as the stability of soil structures themselves. The student will use the principles of soil mechanics to apply the theoretical-empirical approach to stability analysis.

CM 408
CONSTRUCTION MANAGEMENT
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3.
This course will describe and explain the contractual arrangements between owner and consultant: owner and contractor and consultant and contractor. As well, the student will learn to identify and analyze the role that each of the foregoing performs during the construction project cycle. The students will be introduced to project scheduling, the Critical Path Method and resource allocation using Microsoft Project.

CS 007
PERSUASIVE WRITING
45 Credit Hours
Prerequisite: Placement determined by results of AccuPlacer
With a thematic focus on current issues, this course will help learners to express themselves clearly, correctly and persuasively in written form. Learners will also engage in analytical reading and critical thinking through assigned readings and discussions on a variety of topics. The course will also help learners to effectively compile and present research in essay form according to the APA style of documentation.

CS 040
COLLEGE WRITING ESSENTIALS
60 Credit Hours
Prerequisite: Program Admission Requirements
Reading and writing skills are one of the primary supports of learning and required in most College courses. In this course, learners will incorporate topics on current issues with their ability to write clearly and correctly and engage in critical thinking. Learners will read text, analyze text, and write grammatically correct text in summary, paragraph and research paper formats. Learners will effectively compile and present research in an APA documented format.
Course Descriptions

CS 117 (*OL equivalency: OL257) COMMUNICATION STRATEGIES
45 Credit Hours
Prerequisite: None
This course focuses on the development of fundamental writing skills. Learners will demonstrate their competence in essay and summary writing, and text analysis. Learners in all programs will find this course useful in developing their research skills.

CS 217 COMMUNICATIONS FOR HEALTH PROFESSIONALS
45 Credit Hours
Prerequisite: CS 117
In this course, students will enhance their writing skills to produce letters, memos, and resumes. They will combine collaborative methods with advanced research, written, and oral skills to produce and present a major formal report.

CS 220 (*OL equivalency: OL338) BUSINESS COMMUNICATIONS
45 Credit Hours
Prerequisite: CS021/031, CS040 or CS 117
In this course, students will enhance their business writing skills to produce letters, memos, reports, and proposals. They will combine collaborative methods with advanced research, written, and oral skills to produce and present a major formal report.

CS 222 MEDIA COMMUNICATIONS
45 Credit Hours
Prerequisite: CS021/031, CS040 or CS 117
Students will develop a more media-savvy writing style with a focus on the journalistic principles of clarity and concision. Students will also practice oral skills and prepare professional-style presentations. The course will also help students write effective resumes and cover letters, and also practice interview skills in preparation for a job in the Multimedia field.

CS 223 COMMUNICATIONS FOR COMMUNITY SERVICES
45 Credit Hours
Prerequisite: CS117 or CS007 or CS040 or CS021 and CS031
In this course, students will enhance their communication skills as needed in the community services field. They will acquire the skills necessary to write memos, letters, email, reports and proposals, and presentations that meet the professional standards in the community services field. As well students will prepare in their employment search by writing resumes, cover letters and preparing for interviews.

CS 219 (*OL equivalency: OL346) COMMUNICATIONS FOR TECHNOLOGY
45 Credit Hours
Prerequisite: CS021/031, CS040 or CS 117
This course emphasizes the importance of oral communication in an industrial and business setting. In Communications For Technology, students use group methods to apply problem-solving techniques and team building skills. Students use computer-assisted methods for researching, writing and presenting their technical data in a clear and concise manner.

CS 310 (*OL equivalency: OL060) ADVANCED COMMUNICATIONS/ PROPOSAL WRITING
45 Credit Hours
Prerequisite: CS217, IN 410, MC 210
Students combine collaborative methods with advanced written and oral skills to produce and present major formal reports. In addition, students learn to prepare business proposals for use in an international context. Students then apply all aspects of presentation skills for effective proposal and report delivery.

CS 330 PROFESSIONAL COMMUNICATIONS
45 Credit Hours
Prerequisite: CS021/031, CS040 or CS007
This course concentrates on written reports relevant to the duties of a worker in Aboriginal and mainstream child welfare. The practical principles of format and content will be emphasized in the writing of memorandums, proposals, program reports, work plans, case documentation and evaluation reports. Students will have opportunities to critically analyze case information and present information orally and in writing. Intake and assessment forms from a variety of agencies will be examined.

CU 120 BASIC CULINARY SKILLS
75 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: CU 125
This course introduces students to professionalism in the food service industry. The importance of personal hygiene for food service workers will be stressed with emphasis on food safety and sanitation. Health and safety protocols and procedures, along with basic first aid will be investigated. Students will develop skills in working with various kitchen tools and large and small kitchen equipment. This course also introduces students to basic food preparation and dining room service.

 CU 125 BASIC FOOD THEORY
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: CU 120
This course introduces the student to professional culinary terminology, food production, management, techniques and presentation. Cooking methods, stocks, soups and basic sauces are discussed along with vegetable, potato, rice, grain, legumes, pasta, eggs and short order food preparation are introduced.

CU 130 BAKING AND PASTRY ARTS I
60 Credit Hours
Prerequisite: Program Admission Requirements
Successful completion will able the student to demonstrate basic professional baking techniques and a working knowledge of baking fundamentals for a la carte and banquet settings. The course content will cover yeast breads, quick breads, pies, tarts, piping dough’s (and techniques), sponge based pastries, custard, creams, choux paste products and puff pastry products.

CU 140 NUTRITIONAL THEORY AND FOOD PRINCIPLES
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to promote a knowledge and introduction to the techniques used in compiling nutritionally balanced menus within the hospitality industry in order to meet the New Health Canada guidelines. It will discuss the relationship of agriculture and food production and the impact on consumers. Nutritional problems in the life cycle will be discussed with emphasis on adolescence and the elderly.
**CU 215**
**PLANNING FOR PROFIT**
45 Credit Hours
Prerequisite: BM109
This course will provide the knowledge for elementary planning and marketing concepts. Restaurant, banqueting and institutional menus, descriptions, pre-costing, pricing and purchasing will be discussed along with basic human resource concepts.

**CU 220**
**BUTCHERY AND GARDE MANGER**
75 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: CU 210
This course provides students with an opportunity to work in an on-campus restaurant kitchen. Students will experience basic classical and contemporary methods of cooking and presentation styles.

**CU 230**
**BAKING AND PASTRY ARTS II**
45 Credit Hours
Prerequisite: CU130
Successful completion will enable the student to demonstrate advanced professional baking techniques and a working knowledge of baking fundamentals for a la carte and banquet settings. The course content will cover custard fillings, ice creams, sorbets, pr

**CU 320**
**A LA CARTE CUISINE**
75 Credit Hours
Prerequisite: CU120, CU130, CU210
Co-requisite: CU330, CU325
The course provides the student with the opportunity to work in an on-campus restaurant. The student will experience classical and contemporary methods of cooking and presentation styles. The classroom will simulate a restaurant in purchasing, preparation and service.

**CU 325**
**EXPLORING INTERNATIONAL CUISINE (LAB)**
60 Credit Hours
Prerequisite: CU 120
Co-requisite: CU 320 & CU 330
Students will be required to plan and cost international menus. They will purchase, receive and prepare the menus to a high standard for service in our on-campus dining room.

**CU 330**
**CONTEMPORARY CUISINE AND TRENDS (LAB)**
60 Credit Hours
Prerequisite: CU 120
Co-requisite: CU 320 & CU 325
This class will explore recent trends and techniques found worldwide in the food service industry. Students will take a hands-on approach in the food labs preparing unique cuisine using modern presentation styles.

**CU 335**
**MENU PLANNING AND DESIGN**
45 Credit Hours
Prerequisite: BM 109, CU 215
This course introduces the student to the principles and techniques of the planning steps involved in designing menus for different occasions and applications. The theme, style and profile of different establishments will be discussed.

**CU 415**
**ADVANCED CULINARY SKILLS (Lab)**
75 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: CU 420
This course will provide the student with the opportunity to run our on-campus restaurant with techniques they have learned in the first three semesters. Students will take an active role in managing College events that simulate industry situations.

**CU 420**
**APPLIED CULINARY TECHNIQUES (Lab)**
45 Credit Hours
Prerequisite: CU 320
Co-requisite: CU 415
This course will introduce the student to the approach in the food labs preparing unique cuisine using modern presentation styles.

**CU 430**
**WORLD OF FOOD & WINE**
45 Credit Hours
Prerequisite: Program Admission Requirements
Wine and food pairing provides an introduction to the fundamental concepts associated with wine (tasting, serving, interpreting labels, wine terminology, and storage) and its successful pairing with food. Students will also discuss other beverage service in the hospitality industry.

**CU 435**
**MANAGEMENT APPLICATIONS FOR CHEFS**
45 Credit Hours
Prerequisite: BM 109, CU 215
This course introduces the student to the fundamentals of kitchen management. Emphasis is on the Chef as a leader, dealing with motivation, morale and dealing with conflict. Students will discuss operating expenses and sales reports to be used with their entrepreneurship project.

**CU 220**
**BUTCHERY & GARDE MANGER**
45 Credit Hours
Prerequisite: CU 120
Co-requisite: CU 210
This course will provide the student with a basic understanding of meat, fish and shellfish identification, purchasing and fabrication used in modern kitchens. The Garde Manger (cold kitchen) will provide the student with practical knowledge of buffet pr

**CY 102**
**INTRODUCTION TO CYW**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is an introductory course to the field of Child and Youth Work. The student will explore the professional tasks of a CYW practitioner and the challenges of being a member of the profession. An overview of the needs of youth, the types of agencies providing service, governing legislation, professional roles, and roles and expectations of students will be discussed. GIVEN THE FOUNDATIONAL NATURE OF THIS COURSE IN RELATION TO THE UPCOMING FIELD PLACEMENT, 80% ATTENDANCE IS REQUIRED TO ATTAIN COURSE CREDIT.

**CY 103**
**SOCIAL WELFARE**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course presents a critical analysis of the evolution of the social welfare system and the current needs of Canadian citizens. Attention is given to the history of society’s response to meeting human needs, from varying philosophical and theoretical perspectives, with a particular emphasis upon the needs of children and youth, within various human service contexts.
ATTENDANCE IS REQUIRED TO OBTAIN LEARNING PROCESS IN THIS COURSE, 80% and interaction. GIVEN THE NATURE OF THE LEARNING PROCESS strategies such as small group discussion, role-plays and presentations are used to encourage critical thinking, analysis and interaction. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

This course provides a framework for examining the diversity of family constellations, interactions, parenting styles and the impact of interactions on children and adults. These interactions, both positive and negative, form the individual. Recognizing these influences and making choices that improve one's sense of self are critical to the Child and Youth Worker and to those they serve. Nurture, structure and empowerment are key themes that will be explored, both in relation to the student's life experiences and their future role as Child and Youth Workers.

FAMILIES AND PARENTING

This course will examine interpersonal effectiveness and self-awareness. Students will be introduced to skills critical to their ability to effectively interact with others. Throughout the course, students will be provided with the opportunity to apply professional development in the area of effective interpersonal skills and intrapersonal awareness. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

This course is offered concurrent to the first block field placement. The student will begin to examine the role of the CYW. The main focus will be on the CYW as a therapeutic agent. The context and components of a therapeutic milieu will be examined. This course will provide students with the opportunity to integrate course theory and skills with the practice setting. Various group process strategies such as small group discussion, role-plays and presentations are used to encourage critical thinking, analysis and interaction. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

COUNSELLING SKILLS

This course provides students with the opportunity to develop basic professional “helping” skills. An introductory skills course, it provides students with an opportunity to apply theoretical concepts. Students are challenged to explore the nature and purpose of the professional helping relationship. Students will demonstrate how to use self in helping relationships. GIVEN THE NATURE OF THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

This course provides students with the opportunity to apply theory to himself/ herself and to their family of origin.

FIELD PLACEMENT I

This course will examine interpersonal effectiveness and self-awareness. Students will be introduced to skills critical to their ability to effectively interact with others. Throughout the course, students will be provided with the opportunity to apply professional development in the area of effective interpersonal skills and intrapersonal awareness. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

This course seeks to empower individuals and groups of people by providing these groups with the skills they need to effect change in their own communities. Child and Youth Workers are continually interacting and networking with the community at various levels and in a variety of roles. This course will examine the student's conceptualization of the role of the Child and Youth Worker to include the utilization of community development strategies to meet the changing and unmet needs of children/youth and families within the community.

This course will examine the role of the CYW. The main focus will be on the CYW as a therapeutic agent. The context and components of a therapeutic milieu will be examined. This course will provide students with the opportunity to integrate course theory and skills with the practice setting. Various group process strategies such as small group discussion, role-plays and presentations are used to encourage critical thinking, analysis and interaction. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

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CRISIS INTERVENTION

This course examines how families operate as a social system. It will provide a basic theoretical understanding of what causes dysfunction in families. To facilitate the integration of concepts, and to facilitate operationalizing theory, the student will have the opportunity to apply theory to himself/ herself and to their family of origin.

This course will examine interpersonal effectiveness and self-awareness. Students will be introduced to skills critical to their ability to effectively interact with others. Throughout the course, students will be provided with the opportunity to apply professional development in the area of effective interpersonal skills and intrapersonal awareness. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

This course provides students with the opportunity to apply theory to himself/ herself and to their family of origin.

COMMUNITY DEVELOPMENT

This course will examine interpersonal effectiveness and self-awareness. Students will be introduced to skills critical to their ability to effectively interact with others. Throughout the course, students will be provided with the opportunity to apply professional development in the area of effective interpersonal skills and intrapersonal awareness. GIVEN THE NATURE OF THE LEARNING PROCESS IN THIS COURSE, 80% ATTENDANCE IS REQUIRED TO OBTAIN COURSE CREDIT.

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escalated aggressive behaviour is necessary as applied in practice, when responding to the life-space. Awareness of self and theory therapeutically to aggressive behavior within intervention.

Prerequisite: CY 310

This course is designed to give the students a theoretical framework to assess different groups they will encounter as Child & Youth Workers. From this framework, students will begin to develop realistic goals, plan, and begin to select appropriate leadership skills and techniques in relation to the type of group and particular goals that are operational. The focus of this course is the student as Group Leader. It will provide the student with a three-fold approach to this end: 1) Examination of Theories; 2) Function and Structure; 3) Experience. GIVEN THE NATURE OF THIS COURSE, PARTICIPATION IS BOTH CRITICAL AND A REQUIRED COMPONENT; 80% ATTENDANCE IS REQUIRED TO ATTAIN COURSE CREDIT.

CY 601 LEGISLATION

45 Credit Hours
Prerequisite: CY 310
The practice of Child and Youth Work takes place within an environment highly regulated by legislation. This course involves a comprehensive examination of law and the regulations which impact the provision of services to children, youth and families.

CY 607 ADDICTIONS

45 Credit Hours
Prerequisite: CY 510
This course will develop the student’s knowledge and skills in relation to effective identification and intervention strategies related to substance use in youth.

CY 608 PROFESSIONAL ISSUES

45 Credit Hours
Prerequisite: CY 510
The student will consider the complex realities and ongoing demands of working as CYC professionals, with specialized professional knowledge and skills, within teams and within organizations. Following the development of job search skills, the student will examine ethical issues in the profession, learn the roles of administrators and understand the dynamics of effective supervision.
DE 609
FAMILY VIOLENCE
45 Credit Hours
Prerequisite: CY 510
This course is designed to address the issue of family violence as a social problem in general and as a specific issue for the abused. Emphasis will be placed on what it is; why it happens; why women remain with abusive men; what resources are available to families experiencing various types of abuse. In this course students will learn to identify abusive relationships, and ways to approach the situation within the context of their own profession. Prevention of this social problem will also be explored.

DE 610
FAMILY INTERVENTIONS
45 Credit Hours
Prerequisite: Successful completion of Semester 4.
Co-requisite: CY510
The student will examine methods of evaluation, support and interventions to the families of the children and youth they service. Specific attention will be given to the role of the child and youth worker with families, and to key intervention issues.

DE 120
MICROBIOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course concentrates on oral microbiology and introduces the student to the need for effective infection control to avoid disease transmission in the dental clinic. Specific aspects of the control of microorganisms within the oral cavity include the study of biofilm, calculus, stain and caries formation. Students will be introduced to the theory related to immunity and abnormal intraoral conditions as they study the various diseases that may affect the oral cavity.

DE 121
ANATOMY AND PHYSIOLOGY I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course involves the study of the cell, the structure and function of the human body as they pertain to the tissues, the integumentary, the skeletal, and the muscular systems in their healthy state. Students are introduced to common directional terms and definitions related to the anatomical structure of the body.

DE 130
RESTORATIVE PRACTICE LABORATORY
90 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
The combination of lecture and laboratory practice provides students with the theoretical and practical foundation to perform in the role of a dental assistant and to develop the skills required for restorative procedures in a dental operator.

DE 131
DENTAL RADIOGRAPHY THEORY
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course is designed to familiarize students with the theory and practice of radiation protection and safety techniques. The Healing Arts Radiation Protection Act (1984) will be examined in depth. Compliance with this act provides the framework for this course of study.

DE 132
OROFACIAL ANATOMY
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course focuses on a comprehensive review of the dental anatomy. This knowledge will allow for the appropriate utilization of terminology and the discovery of the importance of accurate documentation and charting. A study of the specific theory regarding oral history and embryology will provide the background regarding the early development of the head and neck.

DE 133
DENTAL MATERIALS
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course provides the student with knowledge of the physical and chemical properties of various dental materials. The student will integrate their knowledge with practical experiences in the dental laboratory and clinical setting.

DE 134
LABORATORY SKILLS & TECHNIQUES
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This practical course will offer the student an opportunity to apply theory and provide practical experience in the safe exposure, processing, mounting and evaluating of dental x-ray films. The student will effectively manipulate dental materials to develop a variety of laboratory skills, and will apply theory in the performance of fundamental skills in a private dental practice setting.

DE 206
DENTAL OFFICE PROCEDURES
32 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course introduces students to the principles and practices of dental office management allowing for the integration of knowledge into clinical studies. This course continues to emphasize effective oral and written communication skills in their importance in the profession.

DE 208
CLINICAL SKILLS AND TECHNIQUES
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course continues to allow time for the student to apply theory and further develop efficient and effective clinical skills. The student will gain additional field placement experience in a dental office.

DE 221
ANATOMY AND PHYSIOLOGY II
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course is an extension of DE121, Anatomy and Physiology I. Students will further develop their understanding of fundamental concepts of anatomy and physiology and the interrelationships of the nervous, cardiovascular, respiratory, digestive, urinary, endocrine and reproductive systems of the body.

DE 223
MEDICAL INTERVENTIONS
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course introduces students to the medical interventions that are employed to promote and maintain the health and safety of clients. Students will explore the connection between medications and the pathophysiology of general disease as it relates to dentistry. Students will also apply the theory of metabolism and nutrition related to the prevention and control of dental disease through a healthy diet.
Course Descriptions

DE 230
COMPREHENSIVE DENTAL CARE
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course introduces students to the various aspects of dental specialties which are integral to the function of general and specialty practice. During the course, students will gain further knowledge regarding specific instruments and techniques significant to dental assistants during chair-side assisting. The student will implement oral health education programs designed to prevent and control dental disease. Through effective dental education and oral health promotion, the oral health needs of the client will be met.

DE 231
INTRA-ORAL PRACTICE LABORATORY
96 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course integrates theory and practice components to enable students to attain knowledge and achieve competence in skills relevant to Level's I and II Dental Assisting. They will perform intra oral (Level II skills) including radiography, record keeping and documentation. Students will practice on mannequins and on fellow students in a clinical laboratory.

DE 232
FIELD PLACEMENT
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
Students will be integrated into a private dental practice and will be expected to work as a member of the dental team for one week. This opportunity will offer practical application of skills developed in the laboratory setting. Students will also be introduced to a variety of specialty practices through individual site visits.

DE 330
LEVEL II CLINICAL PRACTICE
48 Credit Hours
Prerequisite: Successful completion of all first and second semester courses.
Co-requisite: All courses in Semester 3.
This course enables learners to gain experience and develop clinical proficiency in intra-oral dental assisting skills. Students will practice skills in the college dental assisting clinic where they will work collaboratively with their client and other health professionals to complete the process of care.

DE 331
COMPREHENSIVE DENTAL CARE II
32 Credit Hours
Prerequisite: Successful completion of all first semester courses.
Co-requisite: All courses in Semester 2.
This course continues to focus on pedodontics, special needs, community oral health promotion and public health, including smoking cessation. Students will develop an understanding of the ethical and legal roles and responsibilities and accountability of the dental assistant.

DE 332
CLINICAL CONSOLIDATION
32 Credit Hours
Prerequisite: Successful completion of all first and second semester courses.
Co-requisite: All courses in Semester 3.
This course provides students with a one-week concentrated practical experience in a community based setting. During this placement, students will apply their theoretical knowledge and consolidate their practical skills as they work with oral care providers, individual clients, and the public in dental practices and/or other related community settings.

DH 109
HISTOLOGY AND EMBRYOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 2.
This course introduces the student to the study of the body, modes of transmission, and the body defenses against disease. This course will introduce students to microorganisms, particularly bacteria and viruses starting with general characteristics of morphology and growth, modes of transmission and the relationship of diseases to pathogenic microorganisms especially those relevant to dental hygiene.

DH 111
DENTAL AND OROFACIAL ANATOMY
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course serves as a foundation for understanding the oral anatomical landmarks and the relationship between structure and function. The student will learn detailed anatomy of the teeth and the surrounding structures in and around the mouth, including the skeletal structures, muscular, vascular, and nervous systems of the head and neck region.

DH 114
ANATOMY AND PHYSIOLOGY I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course involves the study of the normal anatomy and physiology of the major body systems including joints, beginning with an introduction to the common directional terms and definitions relating to the anatomical structure of the body.

DH 132
PRINCIPLES OF DENTAL HYGIENE I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course introduces the roles and responsibilities of the dental team, and consists of an overview of theory, which prepares the student for practical clinical experience. Preclinical theory will include introductory knowledge for obtaining accurate health history records and the fundamentals of effectively and efficiently performing basic clinical procedures. The student will be introduced to the history of dental hygiene, its regulations, governance, Standards of Practice, Quality Assurance Program, and its relationship to dentistry. The student will accurately collect, investigate and record health history information; ergonomics; basic instrumentation, and response to basic medical emergencies.
DH 134 RADIOGRAPHY THEORY
48 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: All courses in Semester 1.
This course is designed to familiarize students with the theory and practice of radiation protection and safety techniques to ensure their compliance with the high standards of the Healing Arts Radiation Protection Act of 1984 and will recognize and interpret normal and pathological structures as seen on radiographs and will apply the theory in clinical studies.

DH 231 FUNDAMENTALS OF ORAL DISEASE PREVENTION
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course introduces the theory to familiarize the student with prevention of oral disease and trauma by promoting behaviour change in clients. This will include a study of the dental hygiene process of care with emphasis on its clinical application. Emphasis is placed on oral biofilm; self-care methods for oral disease control; motivation; principles of education; teaching/learning strategies; nutrition; fluorides; and safety issues.

DH 232 PRINCIPLES OF DENTAL HYGIENE I
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course consists of theory development and preclinical practice to develop necessary skills to continue in clinical sessions. Theory will include introductory oral pathology, prevention of disease transmission, amalgam polishing, and marginalization, the application of anti-cariogenic agents, and stain removal. The student will develop effective instrumentation and sharpening technique that maintain client and operator safety.

DH 233 DENTAL HYGIENE CLINIC I
48 Credit Hours
Prerequisite: Successful completion of the first semester courses.
Co-requisite: All courses in Semester 2.
This course provides an opportunity to clinically apply the knowledge and skills gained from DH 132 and DH 232, and from all theory courses. The student will apply theory regarding the dental hygiene process of care with a focus on client-centred assessment and planning.

DH 236 PHARMACOLOGY
48 Credit Hours
Prerequisite: Successful completion of first semester courses
Co-requisite: All courses in Semester 2.
This course is designed to prepare the dental hygiene student to accurately assess the client's health history and to plan treatment considering the origin, physical and clinical properties, modes of administration and effects of medications upon the body systems. A review of medical interventions to promote and maintain client health and well-being, will ensure client safety.

DH 237 CLINICAL TECHNIQUES LAB
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This practical course will offer the student an opportunity to apply theory and provide practical experience in safe exposure, processing, mounting, and evaluating dental x-ray films. The student will continue to practice and develop pre-clinical and laboratory skills that will prepare them for formal application in the clinical setting. All skills will be successfully performed to a mannequin level prior to clinical application.

DH 240 DENTAL MATERIALS IN SPECIALTIES
48 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: All courses in Semester 2.
This course will include the study of physical and chemical properties of dental materials and their safe use during clinical procedures. Laboratory practice will enable the student to complete the following clinical skills: the manipulation of dental materials; alginate impressions; fabrication of study models; bleaching trays; mouthguards; placement and removal of rubber dams; and the application of pit and fissure sealants on mannequins. The student will gain insight and understanding of the relationship among the variety of specialties within dentistry.

DH 242 PROFESSIONAL PRACTICE FOR DENTAL HYGIENISTS
48 Credit Hours
Prerequisite: Successful completion of first semester courses
Co-requisite: All courses in Semester 2.
The student will explore the requirements of the Regulated Health Professions Act, 1991, (RHPA) that apply to the professional practice of Dental Hygienists in Ontario. She/he needs to understand the regulatory perspective of the provision of safe, effective and timely oral health care, including the relevant principles and guidelines related to sexual abuse prevention. The student needs to appreciate the integration of introductory orthodontic principles and business practices into dental hygiene care.

DH 246 ORAL PATHOLOGY
45 Credit Hours
Prerequisite: Successful completion of all first and second semester courses.
This course is designed to give the student a thorough understanding of the etiology and progression of periodontal disease and knowledge of the various disorders and surgical and non-surgical solutions to periodontal disease.

DH 320 PERIODONTOLOGY
45 Credit Hours
Prerequisite: Successful completion of all first and second semester courses.
Co-requisite: All courses in Semester 3.
This course is designed to give the student a thorough understanding of the etiology and progression of periodontal disease and knowledge of the various disorders and surgical and non-surgical solutions to periodontal disease.

DH 326 WELLNESS-ISSUES AND CONTROVERSIES
48 Credit Hours
Prerequisite: Successful completion of all first, second, and third semester courses.
Co-requisite: All courses in Semester 4.
This course will provide for continued discussion of nutrition and its implications for oral health. The student will discover and report on current concepts, issues and controversies and their effect on oral health promotion, general wellness, and treatment planning. The student will be expected to develop and present a health promotion community project.
DH 331
PROFESSIONS, IDEOLOGY AND CHANGE
45 Credit Hours
Prerequisite: Successful completion of all first and second semester courses. Co-requisite: All courses in Semester 3. Professions Ideology and Change prepares the dental hygiene student to understand the social context, issues and values that affect the delivery of oral health care in Canada. Stakeholder’s ideas and values frequently come into conflict in oral health care delivery and provision. This may lead to ethical dilemmas. Thus, dental hygiene students realize and understand that reason and judgment are required to avoid and resolve ethical dilemmas.

DH 332
PROCESS OF CARE APPLICATIONS
45 Credit Hours
Prerequisite: Successful completion of all first and second semester courses. Co-requisite: All courses in Semester 3. This course reinforces the dental hygiene process of care with a specific focus on implementation and evaluation. The student identifies and utilizes advanced diagnosis, care planning, communication skills and oral self-care education. The student studies all aspects of non-surgical periodontal therapy including its clinical application.

DH 333
DENTAL HYGIENE CLINIC II
135 Credit Hours
Prerequisite: Successful completion of all first and second semester courses. Co-requisite: All courses in Semester 3. The student will be introduced to advanced periodontal techniques and will continue to develop clinical skills for a variety of dental clients. Students begin to perfect skills and increase ability to use theory to plan and deliver comprehensive client care.

DH 430
COMMUNITY HEALTH PROMOTION
48 Credit Hours
Prerequisite: Successful completion of all first, second, and third semester courses. Co-requisite: All other courses in Semester 4. The student will discover the role of the dental hygienist in health promotion and educational activities for communities, the assessment of factors which affect the oral health of populations, and the development of policy in response to population need, and the conditions which are conducive to good health for all. Aspects of special needs groups, epidemiology, research methods and community planning will be implemented to gain the necessary knowledge and skills which are necessary to promote oral health through organized community-based programs. The student will be expected to develop and present a health promotion lesson in the community.

DH 431
SPECIAL NEEDS CLIENT CARE
48 Credit Hours
Prerequisite: Successful completion of all first, second, and third semester courses. Co-requisite: All courses in Semester 4. The student will gain knowledge that will support the high standards for oral health care delivery, which include recognizing and diagnosing conditions that reflect compromised states, preventing adverse side effects of procedures and drugs utilized in dentistry. Students must be acquainted with the conditions in order to have the competence necessary to recognize and prevent problems associated with dental management and to utilize consultations and referrals appropriately.

DH 432
CASE PRESENTATION
48 Credit Hours
Prerequisite: Successful completion of all first, second, and third semester courses. Co-requisite: All courses in Semester 4. The student will integrate knowledge gained throughout the Dental Hygiene Program to assess and present case studies, clinical cases, peer evaluation and mentoring in an effort to encourage collaboration, develop supportive relationships and to ensure competence in effective evaluation, decision making, critical thinking and problem solving skills. The student will also produce a professional portfolio.

DH 433
DENTAL CLINIC III
192 Credit Hours
Prerequisite: Successful completion of all first, second, and third semester courses. Co-requisite: All courses in Semester 4. The student will continue to provide clinical services for a variety of dental clients. The student will integrate a comprehensive knowledge base that allows the student to perfect clinical skills and increase the ability to apply theory to effectively evaluate comprehensive client care. Students will work collaboratively with other health professionals on a variety of care settings.

DS 127
DEVELOPMENTAL DISABILITIES
45 Credit Hours
Prerequisite: Program Admission Requirements Co-requisite: DS 129, PY 063 This course will provide the student with multi-disciplinary information about developmental disabilities. Emphasis will be placed on understanding the causes of and conditions of disabilities as well as the current paradigms of practice.

DS 129
FACILITATIVE TECHNIQUES
45 Credit Hours
Prerequisite: Program Admission Requirements Co-requisite: DS 127, PY 063 Students will be provided with an understanding of the principles and applications of techniques designed to assist persons who have been labeled. The focus will be hands on learning about how to improve accessibility, along with how to modify tasks/activities for improving all aspects of daily living.

DS 131
INTERPERSONAL EFFECTIVENESS
45 Credit Hours
Prerequisite: Program Admission Requirements In this course students will examine interpersonal/inter-professional effectiveness and self awareness. Students will be introduced to skills critical to their ability to effectively interact with others. Students will be provided with the opportunity to apply professional development in the area of effective interpersonal skills and intrapersonal awareness.

DS 133
PHARMACOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements Students will learn a variety of pharmacology competencies as well as the related theory for specific body systems and the drugs that affect each system. The students will be required to demonstrate procedures for the administration of medications through practical applications within the classroom. Considerations for administering medications for individuals with a disability will be the focus.

DS 232
FIELD PLACEMENT I
315 Credit Hours
Prerequisite: All Semester 1 courses. Co-requisite: DS 234, DS 236, DS 238 Students will be involved in a school based placement for 15 weeks. The school environment will provide the student with an opportunity to observe and practice the competencies that are required in the role of an Educational Assistant/ Special Support Person.
**DS 234  INTRODUCTION TO APPLIED BEHAVIOURAL ANALYSIS**
45 Credit Hours
Prerequisite: Program Admission Requirements
Students will demonstrate a variety of applied behavioural analysis theoretical and practical strategies to assist individuals to develop behaviour and skills in an environment that is the least restrictive.

**DS 236  DEVELOPMENTAL DISABILITIES II**
45 Credit Hours
Prerequisite: DS 127
Co-requisite: DS 232
This course will build on the students’ knowledge of disabilities and the current issues of importance in the field. Community services and resources will also be explored.

**DS 238  SCHOOL BASED SUPPORT STRATEGIES**
45 Credit Hours
Prerequisite: DS 127, PY 063
Co-requisite: DS 232
Students will examine the learning styles of students with special needs. Included for study are approaches to inclusive education, instructional strategies, adaptation of learning activities and observational skills.

**DS 341  HEALTH AND WELLNESS FOR DSW**
45 Credit Hours
Prerequisite: DS 133
Students will learn a variety of health care competencies as well as the related theory for healthy living. The students will be required to demonstrate competencies through practical applications within the classroom.

**DS 343  BEHAVIOURAL SUPPORT STRATEGIES**
45 Credit Hours
Prerequisite: DS 234
Students will assess, design, implement and evaluate behavioural plans when supporting individuals with challenging behaviour. Emphasis will be on the application of advanced applied behavioural analysis skills, learned in Introduction to Applied Behaviour Analysis.

**DS 345  DUAL DIAGNOSIS**
45 Credit Hours
Prerequisite: DS 127, DS 133
Students will be provided an overview of mental health diagnosis and the interventions/treatments currently used to promote successful inclusion in the community. As well, the student will learn about the nature of dual diagnosis and the need for coordinated system of supports and services for individuals with a disability.

**DS 347  COMMUNITY BASED SUPPORT STRATEGIES**
45 Credit Hours
Prerequisite: DS 127, DS 129, DS 236
In this course students will examine person centered approaches in order to support individuals with skills to live as independently as possible. Specific best practices in planning and support will be covered.

**DS 349  AUGMENTATIVE COMMUNICATION AND ASSISTIVE TECHNOLOGY**
45 Credit Hours
Prerequisite: DS 127, P7 063
Students will examine typical and atypical language development, augmentative communication, best practices in the field of Autism and the use of assistive technology. This course will use a blend of theory with hands on development of techniques necessary to support persons at home, work or in school.

**DS 452  FIELD PLACEMENT II**
360 Credit Hours
Prerequisite: All Semester 1, 2 and 3 courses.
Co-requisite: DS 456
Students will be involved in 15 weeks of placement in community based agencies. These agencies will provide the student experience in some of the following areas: brain injuries, dual diagnosis, PDD, aging and community supports. Student will be in field placement for 3 days a week with supervision from agency mentors and faculty supervisors.

**DS 454  SOCIAL WELFARE**
45 Credit Hours
Prerequisite: Program Admission Requirements
Students will be introduced to the profession of social work within the framework of the social welfare system in Canada. Current social issues will be examined to support a variety of disenfranchised individuals in society. The student will research ideology/philosophy and relevant legislation of how to provide services and supports with each population studied.

**DS 456  COUNSELLING SKILLS**
45 Credit Hours
Prerequisite: DS 131
In this course students will be provided with the opportunity to develop basic professional “helping skills”. This is an introductory course where students will learn a critical set of competencies for use in their field of practice. Students will be challenged to apply theoretical concepts in classroom role plays and skill building exercises.

**DS127  DEVELOPMENTAL DISABILITIES**
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: DS 129, PY 063
This course will provide the student with multi-disciplinary information about developmental disabilities. Emphasis will be placed on understanding the causes of and conditions of disabilities as well as the current paradigms of practice.

**EC 302  PRINCIPLES OF ECONOMICS**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to essential principles of economics. Students examine the basic economic theories of supply and demand, the role of government, economic indicators, money and banking, monetary and fiscal policies, international trade, and the operation of markets.

**ED 125  INTRODUCTION TO EARLY CHILDHOOD EDUCATION**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to the fundamentals of Early Childhood Education. Core beliefs in ECE and anti-bias education will be emphasized. The historical roots of Early Childhood Education and Canada’s Early Learning Framework will also be explored.
ED 127
HEALTH, SAFETY AND NUTRITION
45 Credit Hours
Prerequisite: Program Admission
Requirements
In this course, students will learn how to develop and maintain safe, healthy environments for young children. Illness prevention and management, nutrition and menu planning will be emphasized. A philosophy of health promotion will be used as a basis for policies and practices that support children’s and adults’ health.

ED 129
INFANT/TODDLER CURRICULUM
60 Credit Hours
Prerequisite: Program Admission
Co-requisite: ED 125
This course will introduce students to the foundations of curriculum planning for infants and toddlers. Emphasis will be placed on planning and preparing developmentally appropriate environments for the social, emotional, physical and cognitive development of very young children.

ED 234
FIELD PLACEMENT I
105 Credit Hours
Prerequisite: ED 125, ED 127, ED 129
Co-requisite: ED 236, ED 240
Students will participate in a one-day a week placement in the second semester of the program and demonstrate competence in selected skill areas. This first field placement course introduces the student to the field of Early Childhood Education and some of the core competencies required of the educator role. Students will actively participate in a placement designed to facilitate the care and education of young children.

ED 236
FIELD PLACEMENT SEMINAR
15 Credit Hours
Prerequisite: ED 125, ED 127, ED 129
Co-requisite: ED 234
This weekly field placement tutorial provides students with an opportunity to review the specific expectations and competencies that are required for this second semester placement. Students will also be able to reflect and to ask questions pertaining to their field placement experience to gain further understanding of their role in Early Childhood settings.

ED 238
CURRICULUM PLANNING II
60 Credit Hours
Prerequisite: ED 125, ED 129
Co-requisite: ED 234, ED 236
In this course, students will learn how to effectively plan and implement developmentally appropriate curriculum for a variety of age groups. The role of the educator in facilitating play will be emphasized. Topic areas include art and creativity; sand; water; block play; group times; and transitions.

ED 240
DEVELOPMENT OF INFANTS/ TODDLERS & OBSERVATION
60 Credit Hours
Prerequisite: ED 125, ED 129
Co-requisite: ED 234, ED 236
This course will provide an introduction to the basic principles of child development and the theories that form the holistic approach in Early Childhood Education. Critical milestones in the growth and development of infants and toddlers will be observed using a variety of observation methods.

ED 242
EFFECTIVE INTERPERSONAL COMMUNICATION
45 Credit Hours
Prerequisite: Program Admission
Requirements
Effective interpersonal skills are the foundation for successful relationships with colleagues and families in an early childhood environment. Students will enhance their communication skills and gain greater understanding of their own communication patterns and behaviours as they participate in group processes. Problem solving, conflict management, and self-reflection skill development will be emphasized.

ED 243
GUIDANCE
45 Credit Hours
Prerequisite: ED 125, ED 234
Co-requisite: ED 347, ED 349
The emphasis in the course will be on a child-centered approach to disciplining young children. Students will examine their own care giving styles and learn about a variety of positive guidance strategies that are used to promote the long-term goal of self-discipline.

ED 345
PRE-SCHOOL/SCHOOL-AGE DEVELOPMENT & OBSERVATION
60 Credit Hours
Prerequisite: ED 125, ED 234, ED 236, ED 240
Co-requisite: ED 347, ED 349
Critical milestones in the physical, cognitive, and social-emotional domains during the preschool and school-age years will be explored in theory and observed using a variety of observation techniques.

ED 347
FIELD PLACEMENT II
210 Credit Hours
Prerequisite: ED 127, ED 234, ED 236, ED 238
Students enrolled in the third semester of the Early Childhood Education will complete a two-day per week placement where they will practice and demonstrate competence in a variety of skill areas. There will be an emphasis on the planning, preparation and implementation of developmentally appropriate curriculum and students will be expected to demonstrate professional behaviour and model the role of the educator as they relate to children and their families.

ED 349
FIELD PLACEMENT SEMINAR
15 Credit Hours
Prerequisite: Program Admission
Requirements
Co-requisite: ED 234
Students will examine core competencies outlined in the ECE Competency Journal. Goal setting and self-evaluation in relation to the skills and behaviours required for field placement will be emphasized.

ED 351
CURRICULUM PLANNING III
45 Credit Hours
Prerequisite: ED 129, ED 234, ED 238
Co-requisite: ED 347, ED 349
This course equips students with a working knowledge of the various methods used to plan appropriate curriculum for a variety of age groups. Students will have opportunities to develop and implement key components of each of the following curriculum areas: creative drama music; language arts; science; active play; outdoor play and field trips.
ED 452
FIELD PLACEMENT III
210 Credit Hours
Prerequisite: ED 129, ED 234, ED 238, ED 240, ED 343, ED 345, ED 347, ED 351
Co-requisite: ED 454, ED 456, ED 458
This final field placement course will consolidate the competencies outlined in the Field Placement Journal. During this two-day a week placement, students will have the opportunity to take initiative and demonstrate aspects of the educator’s role in the planning and implementing of curriculum, meeting the needs of children and their families, and working and as an effective member of a team. A weekly plan reflecting age-appropriate curriculum will be developed and implemented at the end of this placement. Self-reflection and goal setting will be an ongoing expectation for this final field experience.

ED 454
ADVANCED TEACHING METHODS
45 Credit Hours
Prerequisite: ED 129, ED 234, ED 238, ED 347
Co-requisite: ED 452, ED 458
A variety of philosophical approaches used in Early Childhood Education Programs will be examined and students will develop a personal philosophy statement that is congruent with core beliefs of the ECE profession. A culminating assignment will include portfolio development, resume and cover letter and goal setting in preparation for employment.

ED 456
INCLUSIVE PRACTICE
45 Credit Hours
Prerequisite: ED 125, ED 234, ED 345, ED 349
Co-requisite: ED 452, ED 460
This course provides an introduction to inclusive childcare. The role of the Early Childhood Educator in relation to the early detection of potential learning differences will be emphasized. The diverse role of the Resource Teacher will be examined along with strategies for providing a holistic integrated learning environment.

ED 458
FIELD PLACEMENT SEMINAR
15 Credit Hours
Prerequisite: ED 234, ED 347
Co-requisite: ED 452
Students will examine core competencies outlined in the ECE Competency Journal. Goal setting and self-evaluation in relation to the skills and behaviours required for field placement will be emphasized.

ED 460
POLICY, LEGISLATION AND ADVOCACY
45 Credit Hours
Prerequisite: ED 125, ED 234, ED 236
Co-requisite: ED 452, ED 458
This course will enable the student to gain knowledge of the political and social issues that impact on early childhood programs. Students will develop advocacy skills in order to promote early childhood education and support children and their families within a changing social context.

ED 461
FALL FIELD SCHOOL
88 Credit Hours
Prerequisite: Successful completion of first year courses.
This course introduces students to environmental monitoring, sampling and data evaluation through hands-on field exercises. The topics include Northwestern Ontario geology with an emphasis on mining, environmental monitoring and site rehabilitation; hydrogeology and groundwater sampling; surface water sampling; sediment and benthic sampling; and water and wastewater treatment. An overnight field camp may be included.

ED 462
HYDROGEOLGY
39 Credit Hours
Prerequisite: T.B.A.
Co-requisite: EI 320
This course introduces the students to the basic principles of groundwater occurrence, flow, exploration and monitoring. Students will study the basic theory of soil mechanics, water flow in the natural ground and procedures of basic soil testing in the laboratory. Students will work individually and in groups to complete laboratory experiments.

ED 463
HYDRAULICS
39 Credit Hours
Prerequisite: T.B.A.
Co-requisite: EI 320
This course introduces the students to the basic principles of hydraulics governing flowing aqueous media. Students will learn the techniques to measure flow and will assess manipulated water at rest or in motion to urban infrastructures such as reservoirs, pipelines, tanks and pumping systems. The processes influencing the fate and transport of chemicals in aqueous media will also be identified.

ED 464
WATER QUALITY
30 Credit Hours
Prerequisite: EI 325
Co-requisite: EI 320
Water is a major constituent of all living matter and is therefore considered the “molecule of life”. Water quality is the degree to which water is pure enough to fulfill the requirements of various uses. The water quality course involves the analysis of the water molecule, and its capacities and limitations, limnology, and sampling. Emphasis will be placed on the application of regulatory sampling and laboratory procedures for analyzing common physical, chemical, microbiological, and toxicological parameters of water quality.

ED 465
WATER AND WASTE WATER TREATMENT
30 Credit Hours
Prerequisite: EI 320, EI 323, EI 423
Co-requisite: EI 323, EI 425
This course involves a study of facilities and processes for solid waste management, the production and distribution of potable water and the collection and treatment of municipal wastewater. Emphasis will be placed on the operational aspects, and learners will visit facilities to observe full-scale processes and equipment. Learners will acquire the knowledge required by the Ontario ministry of the Environment for Operator-In-Training (OIT) certification. Learners will be required, as part of the course, to complete the Ontario Ministry of the Environment’s training for Entry Level Drinking Water Operators; graduates from the program who have achieved a 70% or better in the provincial examination will receive their Entry level Drinking Water Operator certification.

ED 466
INTRODUCTION TO ENVIRONMENTAL CHEMISTRY
30 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: T.B.A.
This is an introductory chemistry course that allows the student to become familiar with the terms, tools and calculations that are a part of chemistry. Topics covered include matter, the use of the periodic table, bonding, nomenclature, mole calculations and concentration of solutions.
EI 326  
WASTE MANAGEMENT  
39 Credit Hours  
Prerequisite: Program Admission  
Requirements  
Co-requisite: EI 320  
This course will familiarize the student with current and developing practices for the disposal of municipal solid wastes.

EI 351  
ENVIRONMENTAL TECHNICIAN CO-OP WORK PLACEMENT I  
640 Credit Hours  
Prerequisite: Successful completion of all core courses. The placement is negotiated and coordinated by the Placement Office and the program co-ordinator. The procedures and regulations pertaining to this placement will be according to the College’s “CO-OP HANDBOOK FOR STUDENTS”. During this work placement, the actual duration of which will be 16 weeks, the student has the opportunity to apply his/her theory and practical skills in a full-time work situation outside of the academic environment. This will help the student in developing his/her long-term career goals. In addition to having his/her work performance evaluated by the employer, the student will complete and submit for evaluation a formal report describing the placement.

EI 421  
ENVIRONMENTAL REGULATIONS  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: T.B.A.  
In this course, students will acquire a working understanding of federal and provincial environmental legislation in Canada. This course will examine key legislation dealing with environmental protection, remediation and conservation for all aspects of our environment. As these laws affect all aspects of the environment, and violations can bring stiff penalties, all environmental practitioners must be conversant with them and the court systems. The course will also examine the evolution of the Canadian court system to gain an understanding of the basis of environmental legislation applicable in today’s society.

EI 422  
ENVIRONMENT, ETHICS AND SOCIETY  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: T.B.A.  
This course will assist the student in understanding fundamental concepts of environmental ethics and sustainable development. The importance of sustainable development in the management of our environment and natural resources will be emphasized through discussions of current resource and environmental issues occurring regionally and globally.

EI 423  
ENVIRONMENTAL AUDIT  
39 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: T.B.A.  
This course will provide the learner with the ability to initiate and complete environmental audits, which have become an increasingly important part of efforts to improve and protect our environment. Emphasis will be placed on environmental site assessments, regulatory compliance audits, environmental management systems, waste reduction and energy audits, risk assessment and due diligence.

EI 424  
INDUSTRIAL ENVIRONMENTAL TECHNOLOGY  
45 Credit Hours  
Prerequisite: EI 320, EI 325, EI 425  
Co-requisite: T.B.A.  
The course will provide students with an understanding of the industrial processes that generate and control air pollutants. An emphasis is placed on processes that are important for the industries of Northwestern Ontario.

EI 425  
ADVANCED CHEMISTRY  
52 Credit Hours  
Prerequisite: EI 325  
Co-requisite: T.B.A.  
The course will provide the student with knowledge of fundamental chemistry, chemical calculations, and laboratory procedures commonly applied to environmental testing and monitoring. Introduction to organic chemistry will cover principles of structure, reactions and applications common to organic chemistry.

EL 161  
ELECTRICAL I  
60 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: MA 131  
The students are introduced to methods to calculate currents and voltages in D.C. series, parallel, and circuits. They will also be introduced to circuit analysis theorems, such as Thevenin’s Theorem, and the Superposition Theorem. These methods will allow the student to predict values before entering the lab. The students are introduced to the basic laboratory equipment. They will be able to measure resistances, DC currents, voltages, and compare the measurements with calculated values.

EL 165  
DIGITAL I  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is an introduction to digital logic systems that are found in all computers. Students will focus on number systems, binary arithmetic, logic gates, Boolean algebra, and integrated circuits.

EL 166  
COMPUTER SYSTEMS – COMPTIA A + (*OL equivalency: OL718)  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: MC 155  
The personal computer has been adopted into society as an essential business tool as well as a family entertainment and information appliance. The PC’s impact on society has markedly and steadily increased ever since IBM introduced its first mass market PC, the IBM PC, in the early 1980’s. The rapid rate of change of the power and capabilities of the personal computer is a major contributing factor to the significant impact the PC has had on our lives. EL 166 is designed to give the technician an understanding of the PC by acquiring an appreciation of the changing technologies within the PC. Rather than simply studying these technologies at a distance, students will experience these technologies with hands-on labs in addition to other methods of learning. This hands-on approach will help students to become better-informed consumers for both personal and business computer acquisitions, as well as, help students to gain an appreciation for and understanding of computing technologies.
Course Descriptions

EL 167  
ELECTRONICS I  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Co-requisite: EL 161, EL 165  
The student is introduced to basic fabrication techniques used in industry. They will design and construct printed circuit board based power supply.

EL 227  
ELECTRICAL II  
60 Credit Hours  
Prerequisite: EL 161, EL 167  
This course introduces the student to Alternating Current circuit analysis techniques. It covers generation of the sine wave and its relationship between frequency, peak values, RMS value, and phase angle. It uses vector mathematics to calculate reactance, impedance, voltage, current and phase angle. These techniques are then applied to AC circuit theorems such as Thevenin’s Theorem. Students will be introduced to electronic test equipment; they will demonstrate their ability to use the oscilloscope and other measuring equipment to measure amplitude, frequency and phase angles for reactive circuits.

EL 228  
ELECTRONICS II  
60 Credit Hours  
Prerequisite: EL 167, EL 161  
Co-requisite: EL 228  
Students will examine the atomic structure of semiconductors; diode theory and applications; special purpose diodes; bipolar transistors and their characteristics; biasing circuits, NPN and PNP and common-emitter amplifiers. This will establish the foundation for understanding the circuits found in computers today. Students will build discrete component semiconductor circuits using diodes and transistors, and analyze these circuits for expected values. The students will then employ standard measuring and troubleshooting techniques to verify electronic circuit parameters.

EL 229  
INDUSTRIAL DRAWINGS & SPECIFICATIONS  
45 Credit Hours  
Prerequisite: EL 161, EL 166, EL 167, MC 155  
This course is an introduction to Computer Aided Drafting (CAD) using AutoCAD software. The student will focus on all 2-D commands of AutoCAD including basic drawing and editing functions, plotting, and general drawing file maintenance. The drawing assignment material is directed to the reproduction of electrical schematics, process flow diagrams, electrical wiring, and motor control ladder logic diagrams. A major project is assigned towards the end of the semester that allows students to choose a complex drawing of an electrical nature.

EL 304  
DIGITAL CIRCUITS II  
45 Credit Hours  
Prerequisite: EL 165, EL 227, EL 228  
Topics covered are computer building blocks such as: TTL family components, logic gates, flip-flops, one shots, counters, shift registers, multiplexers/demultiplexers, D/A’s and A/D’s. The student will also gain practical experience in troubleshooting digital circuitry.

EL 305  
INDUSTRIAL ELECTRONICS I  
60 Credit Hours  
Prerequisite: EL 227, EL 228  
The student will examine various types of semiconductor circuits and their application to small signal amplifiers, power amplifiers and operational amplifiers. Oscillator circuits will be analyzed. The student will construct basic semiconductor circuits studied in another related subject. They will verify the operation of the circuit using test equipment and various techniques.

EL 306  
TELECOMMUNICATIONS I  
75 Credit Hours  
Prerequisite: EL 227, EL 228  
This course is an introduction to wireless telecommunications and wide area networks. Students will focus on carriers and modulation. In addition, multiplexing, subcarriers and frequency synthesizers will be studied. Students will focus on hands-on use of test equipment used in telecommunications laboratories. Students will acquire skills in set-up, alignment and troubleshooting of telecommunications equipment. A concise journal of all laboratory procedures will be kept.

EL 307  
INDUSTRIAL DATA NETWORKS  
45 Credit Hours  
Prerequisite: EL 165, EL 227, EL 228  
Data Communications introduces the student to the software, hardware and structure of today’s modern control system’s networks. The student will look at different types of signal mediums, modes of transmission and error detection. The student will also examine the architecture of industrial local area networks, such as RS232, RS422, RS485, RTU protocol and the hardware and line requirements for each network type.

EL 405  
INDUSTRIAL ELECTRONICS II  
60 Credit Hours  
Prerequisite: EL 161, EL 228, EL 305  
The student will progress from Industrial Electronics I to a more advanced study of industrial devices such as operational amplifiers, power supplies, thyristors, and control circuits. The student will gain experience in analysis and troubleshooting of industrial computers and systems.

EL 406  
EMBEDDED CONTROL SYSTEMS I  
45 Credit Hours  
Prerequisite: EL 165, EL 304  
The student will work with a microcontroller to understand microcontroller architecture, instruction set, I/O handling, timing programming and interfacing to analog and digital devices.

EL 407  
WIDE AREA NETWORKS  
60 Credit Hours  
Prerequisite: EL 161, EL 228, EL 305  
This course is a study of Wide Area Networks. Voice and data must be moved over great distances utilizing wireless and wired media. Students will study wired and wireless telecommunications systems including wireless voice and data transceivers, public telephone systems, private telephone systems, wireless telephones and wireless LAN communications.

EL 408  
NETWORKS II THEORY  
45 Credit Hours  
Prerequisite: EL 168, EL 229, EL 307  
Co-requisite: EL 409  
This course provides comprehensive and practical knowledge of Information Networks hardware and software technologies. Using the client/server model, students will study and analyze effective solutions for large multi-user Local Area Networks. The course will deal with hardware specifications and installation, software installation and configuration network management, and system conflict resolution.
Course Descriptions

EL 409 NETWORKS II LAB
45 Credit Hours
Prerequisite: EL 166, EL 229, EL 307
Co-requisite: EL 408
This course provides comprehensive and practical knowledge of Information Networks hardware and software technologies. Using the client/server model, students will study and analyze effective solutions for large multi-user Local Area Networks. The course will deal with hardware specifications and installation, software installation and configuration, network management, and system conflict resolution.

EL 431 AUTOMATION CONTROL SYSTEMS I
45 Credit Hours
Prerequisite: EL 165, EL 229
The student will learn the proper procedures for the development, creation and editing various logic controller projects for the ON-OFF operation of electric actuators. Emphasis is focused on interlocking, timing, and counter operations. A complete PLC application project is to be submitted at the end of the course.

EL 505 COMPUTER CONTROL SOFTWARE
45 Credit Hours
Prerequisite: TC 235, TC 335, TC 435
As most modern control systems involve a computer to human interface, it is the objective of this course to provide an overview and basic understanding of programming techniques used in graphical interface and control systems. This course will allow the student to utilize a high level language such as Visual BASIC to construct, troubleshoot and write programs to gather data from an A to D converter via a personal computer. Actual field measurements will be plotted versus time on a graph generated within the Visual BASIC environment. The PC and external hardware required to complete the task will be studied, as well as common control theory and algorithms. The concepts and principles understood here will provide a good base for implementation in the sixth semester.

EL 506 INDUSTRIAL POWER SYSTEMS
45 Credit Hours
Prerequisite: EL 228, EL 227, MA 231
Virtually all installations are supplied with A.C. power. To properly work in a design team or operate a power distribution system, a graduate must understand the concept of three phase power and be able to specify transformers. Because electrical energy cost is a big concern, a designer must know the basics of utility costing. Students will review and study, in greater depth, A.C. waveforms, power and power factor. The theory of power demand and energy consumption will be studied. The students will study the phase power which includes delta and wye connections as well as transformer theory and applications, in an industrial power system.

EL 507 EMBEDDED CONTROL SYSTEMS II LAB
45 Credit Hours
Prerequisite: EL 406
Co-requisite: EL 508
The student requires hands-on practical support for the microcontroller theory learned in EL 508. He/she quickly learns the dedication required in getting a microcontroller based system to work when problems can originate in hardware or software. Success in this area gives the student the confidence required in becoming a self-starter. The student is required to design and connect microprocessor based hardware and write supporting assembly language software. The successive lab assignments build upon the previous labs to culminate in the design files required to produce an embedded control system.

EL 508 EMBEDDED CONTROL SYSTEMS II THEORY
45 Credit Hours
Prerequisite: EL 406
Co-requisite: EL 507
Microcontroller-based systems are more prevalent since their introduction in the 1970s. Today, more than half of all CPUs sold in the world are 8-bit microcontrollers. The Embedded Control Systems II course will teach the student about the detailed architecture of the 8-bit PIC18F452 microcontroller, how to access various memory types on-chip, how to interface with internal and external peripheral devices; to learn detailed schematic production and analysis. Additionally, the student will be required to program the PIC18F452 microcontroller to perform real world tasks by utilizing an assortment of peripheral chips and interfaces.

EL 608 SYSTEM INTEGRATION
45 Credit Hours
Prerequisite: EL 507, EL 508, EL 509
The System Integration course allows the student to widen his/her knowledge base to include analog and digital signal conditioning, conversion and processing techniques using integrated circuits found in microprocessor / microcontroller, PLC and DCS systems. The successful student will gain knowledge of how analog and digital process signals are generated, transmitted and converted while maintaining maximum data integrity. Additionally, board level industrial control design will be studied. This will range from the design of the circuit boards themselves, utilizing the information acquired by chip study above, to the interconnection of the boards into a working industrial system. The successful completion of a major project will demonstrate the student’s competency in skills, knowledge and attitudes acquired throughout the 6 semesters of the entire program.

EL 609 COMPUTER SOFTWARE V - THEORY/ LAB
60 Credit Hours
Prerequisite: EL 166, EL 229, EL 307, EL 408, EL 409
This course provides comprehensive and practical knowledge of the Windows 2003 Server operating system hardware and software technologies. Using the client/server model students will study and analyze effective solutions for large multi-user PC based networks. The course will deal with the major issues facing network administrators today, including hardware specification and installation, software installation and configuration, network security, network management, and system conflict resolution. Course content is based on Microsoft’s MCSE (Microsoft Certified Systems Engineer) certification exam #70-290.

EL 610 HUMAN MACHINE INTERFACES / SCADA
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce the student to the concepts of PC based HMI (Human Machine Interface) for industrial automation with a focus on PC based interface design, data acquisition, logging, event driven scripting, security and Automation network layout.
EN 400  (*OL equivalency: OL104) 
ENTREPRENEURSHIP
45 Credit Hours 
Prerequisite: None
This course has been designed to provide the student with a thorough comprehension of the entrepreneurial process as it relates to business start-up. Students will examine various entry paths to an entrepreneurial career and the rewards and challenges associated with those options. Students will learn how to identify and assess business opportunities and ideas as well as prepare business plans for the start-up of a business venture.

ES 222 
ELECTRICAL, ELECTRONICS & FUEL SYSTEMS
94 Credit Hours
Prerequisite: Successful completion of first semester subjects. 
Demonstrate a working knowledge of the purpose, principles of operation and applications of electrical concepts.

ES 224 
DRIVE TRAIN SYSTEMS 
94 Credit Hours
Prerequisite: Successful completion of first semester subjects. 
Demonstrate a working knowledge of the purpose, construction, fundamentals and operation for push-type clutches and flywheel assemblies. Demonstrate inspection, testing and diagnostic procedures.

ES 225 
STEERING, SUSPENSION & BRAKES
75 Credit Hours
Prerequisite: Successful completion of first semester subjects. 
Demonstrate a working knowledge of the purpose, construction, fundamentals and applications of suspension systems.

ES 226 
AIR CONDITIONING & BODY CONTROLS
75 Credit Hours
Prerequisite: Successful completion of first semester subjects. 
Demonstrate a working knowledge of purpose, construction, principles of operation and inspection and testing of heating and ventilation systems.

ES 227 
FIELD PLACEMENT (2 WEEKS)
60 Credit Hours
Prerequisite: Successful completion of all first and second semester subjects. Students are placed for a two week period in selected industry throughout the Northwestern Ontario region and are expected to satisfactorily perform basic functions under the supervision of industry personnel. Performance evaluations will be conducted by both industry supervisors and college staff.

ET 202 
PROFESSIONALS IN TRAINING
45 Credit Hours 
Prerequisite: Program Admission Requirements
This course will introduce the student to the roles and responsibilities of the professional in society. The student will investigate their duty and ethical interaction with the public, their clients, their employers and fellow employees. The course will also look at labour-management practices as well as health and safety regulations. From a personal perspective, the students will study techniques for dealing with time and stress management, changes in the workplace, self assessment for professional development and team building and leadership.

ET 206 
INTRODUCTION TO AUTOCAD
45 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the students to the techniques involved in producing drawings by computer, storing the files and outputting the drawings to a plotter. The students gain the basic knowledge and skills in operating a computer keyboard, and screen display in selecting menu items to create and edit a drawing. The students also learn layer and line management and set the parameters necessary to produce the desired plotted output.

ET 505 
DATA MANAGEMENT & QUALITY CONTROL
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3 & 4. 
This course introduces students to the principles and techniques of quality control and quality assurance. It will use the basics of probability and statistics to gain an understanding into the intricacies of data and sampling and the use of control charts. The course will make significant use of spreadsheet software to track, analyze and present quality related data.

ET 608 
LAW & ETHICS
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.
This course is designed to prepare the graduate student to write the Professional Practice Examination required for provincial licensure. The student will study the basics of contract law, professional and ethical liability.

FA 113 
A SURVEY OF INDIGENOUS ART FORMS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will explore the art and culture of the Indigenous people of Canada. The course will identify and study the Art History and world view of several of the Indigenous groups of the world. Indigenous people worldwide have expressed themselves through art in so many ways such as dance, songs, poetry, visual arts and their sense of value. The Canadian First Nations contemporary art forms of expressions will be explored through studies and hands-on medium, materials and their purpose. This course will have the access to study with the use of the world renowned Canada’s National Thunder Bay Art Gallery permanent collection.

FA 119 
CONTEMPORARY ABORIGINAL ARTISTIC DESIGN
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to orient and expose students to the formal disciplines of art and design. A cross-cultural perspective of the Renaissance to the Woodlands art style will be introduced to the basic implementations on various materials, mediums, techniques and design. Theory and demonstration of the step-by-step phases of drawing will be explored as a starting point for the students to develop, understand and nurture their own artistic skills. This course will have the opportunity to tour and study at the permanent collection of the world renowned Canada’s National, Thunder Bay Art Gallery.
FA 150
APPROCIATING VISUAL ART
45 Credit Hours
Prerequisite: Program admission requirements
Students will begin this course by looking at visual arts’ impact on the course of human events, with a particular emphasis on the artist’s role in these affairs. Then, using basic art vocabulary, students will come to understand and communicate how artistic perception translates into artistic expression. Throughout this course, students will study techniques used by master artists and be given the opportunity to apply those techniques to works of their own. Direct experience in various media, in combination with the knowledge of aesthetic values, will enable students to analyse and evaluate visual art.

FA 170
INDIGENOUS ART
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will explore forms of artistic expression among Indigenous cultures, and intercultural interaction in Canada. Through experiential learning, students will become familiar with historic, traditional and contemporary forms, and how these have evolved over time. The content will include artistic works from a range of media including visual, written, and performance-based expression. Topics will also include discussion about how social and political context(s) and artistic expression inform and influence one another.

FA 250
DISCOVERING MATH IN ART AND DESIGN
45 Credit Hours
Prerequisite: Program Admission Requirements
This course uses the student’s interest in visual arts to develop mathematical concepts. The links between mathematics, architecture, visual expression and music will be explored. The student will discover and apply mathematical concepts to produce original pieces of their own design and critique existing works of art. The course is designed to illustrate that mathematics does not exist in a vacuum, but is related to many creative human endeavors.

FP 161
PRODUCTION THEORY I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: FP 162, FP 163
Our students will develop a film maker’s vocabulary and an understanding of the film production culture. Students will also learn about the stages of development that go into the creation of a film idea. This course is the theoretical foundation for film production and practices.

FP 162
PRODUCTION PRACTICES I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: FP161, FP163, FP164
In FP 162 students will learn the correct and safe handling of basic, film equipment which is included and rehearsed. Film equipment includes; cameras, projectors, lenses, camera supports, light fixtures, lighting bulbs, light stands, light controlling instruments, dollies, dolly tracks, electrical cords, camera and lighting filters, light meters, and various other miscellaneous items.

FP 163
PRODUCTION CONSULTATION I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: FP161, FP162, FP164
Students, together with faculty/producer will prepare for their first productions. Small crews are formed to produce individual black and white and colour silent films. The end product involves the construction of a film through all stages of pre-production using professional protocols and methods.

FP 164
POST PRODUCTION I
45 Credit Hours
Prerequisite: Must be enrolled in the Film Production Program
Co-requisite: FP161, FP162, FP163, FP165
Students are introduced to broad concepts of non-linear editing including timelines, files and tools. Students will learn how to capture video into the computer, edit it and output to the screen or to an external video recorder. Students also learn about creating titles and transitions. The Final Cut Pro-platform is used to create titles, sound mixes and special effects.

FP 165
DIGITAL PHOTOGRAPHY
45 Credit Hours
Prerequisite: Program Admission Requirement
Co-requisite: FP164
Basic compositional concepts, lenses and manipulation of the image with computers are introduced. Students will use digital cameras and the Photoshop platform to complete assignments and explore visual design.

FP 261
PRODUCTION THEORY II
45 Credit Hours
Prerequisite: FP161, FP162, FP163, FP164, FP165
Co-requisite: FP262, FP263, FP264
Scenes and sequences are developed for more complex films. Theories of sound, recording and microphones along with more sophisticated shooting strategies are introduced.

FP 262
PRODUCTION PRACTICES II
45 Credit Hours
Prerequisite: FP161, FP162, FP163, FP164, FP165
Co-requisite: FP261, FP263, FP264
Managing larger crews on location are planned to produce more involved films. Sophisticated location sound recorders, different types of microphones, motorized sync sound cameras and various production equipment are introduced and used for production.

FP 263
PRODUCTION CONSULTATION II
45 Credit Hours
Prerequisite: FP161, FP162, FP163, FP164, FP165
Co-requisite: FP261, FP262, FP264
Students, together with their faculty/producer will prepare for their first film productions that include sync sound recording. The end product involves the construction of a film through all stages of pre-production using professional protocols and methods. Storyboards and other planning tools, along with casts, locations and props are organized for longer narrative films. With a greater level of planning required, this is the first major film project for students leading to a complete DVD finished film project, including packaging.

FP 264
POST PRODUCTION II
45 Credit Hours
Prerequisite: FP164, FP165
Co-requisite: FP261, FP263, FP266
Students will employ advanced editing techniques using Final Cut Pro to the films they have shot. In addition to more in depth technical instruction, basic film editing aesthetics are outlined and utilized. Film editing as a creative form of art is introduced in FP263, as are other computer programs, including Compressor, Livetype, Motion, Soundtrack, and DVD Studio Pro.
Course Descriptions

FP 266
NON FICTION FILM I
45 Credit Hours
Prerequisite: FP161, FP162, FP163, FP164, FP165
Co-requisite: FP264
Students will learn about the basic techniques and aesthetics behind the design and production of documentary, commercial, and industrial films. The use of camera, lighting and sound in the interview will be stressed. Students will demonstrate proficiency with technical equipment and employ these skills on two short non-fiction productions. Different types of documentary films will be analyzed in class and critical writing skills developed. Students will learn about legalities and leave the course with the various documents needed to professionally conduct any non-fiction production.

FP 267
SCRIPT WRITING I
45 Credit Hours
Prerequisite: FP 161, CS 117 Must be enrolled in the Broadcasting – Television Production Program or Film Production Program
Formats, script software and techniques are introduced to produce scripts, treatments and character studies for first year films.

FP 268
DIRECTING
45 Credit Hours
Prerequisite: Must be enrolled in the Film Production Program
In the course of the film production program, successful students will have the opportunity to create and direct some of their own short films. In most cases, these works will involve actors. A bad performance and poor casting can ruin the most carefully composed and executed film. A rudimentary understanding of the director’s journey is required and fundamental to the success of any film project. This includes understanding the needs of the actor and the techniques available when directing the actor. Also, many careers in film production that are not directing careers will nonetheless involve working with actors in some capacity.

FP 361
PRODUCTION THEORY III
45 Credit Hours
Prerequisite: FP261, FP262, FP263
Co-requisite: FP 362, FP 363
Our advanced production theory course continues to develop the film maker’s individual point of view. Ideas that unify a film – visual design, sound design, and the use of the motif along with compound shots are developed.

FP 362
PRODUCTION PRACTICES III
45 Credit Hours
Prerequisite: FP261, FP262, FP263
Co-requisite: FP361, FP363
Advanced production supports further development of the film maker’s skills. This includes radio microphones, digital recorders, the Super 16 format, smaller specialized lighting instruments and complex gaffer equipment.

FP 363
PRODUCTION CONSULTATION III
45 Credit Hours
Prerequisite: FP 261, FP 262, FP 263
Co-requisite: FP 361, FP 362
Larger crews with more attention to continuity, performances and effective use of locations are developed for a thesis film. Industry standard documentation is utilized as part of the standard professional film production protocol.

FP 364
POST PRODUCTION III
45 Credit Hours
Prerequisite: FP 264
Co-requisite: FP 361, FP 362
Techniques of colour correcting, image manipulation, compositing effects and motion control are introduced for a thesis film.

FP 365
TRADITIONAL PHOTOGRAPHY
45 Credit Hours
Prerequisite: FP 165
Students will discover how the camera can be used as a visualization tool. The camera will allow students to observe more accurately, to develop imagination, and to express a theme or subject more effectively with photography. They will explore how images can influence the viewer’s perception of reality, and how visual processes can be sharpened. Students will practice various techniques introduced and apply them to manipulate images using a conventional darkroom.

FP 367
SCRIPT WRITING II
45 Credit Hours
Prerequisite: FP 267
FP 367 is designed to give film and television students the opportunity to explore in some detail, the special problems related to the production of short dramatic scripts, commercials and short documentary material. The types of problems explored will depend on the individual projects pursued by each student. Problems explored may include character sketches, synopses, screenplays and narration. The submission of proposals and treatments for individual projects in accepted professional format will be developed.

FP 369
FILM BUSINESS
45 Credit Hours
Prerequisite: Program Admission
Requirements
Students will be introduced to various budgeting and scheduling models that are an integral part of the film production process and industry. Film production software, to assist in the making of a thesis film, will be introduced and explored. Students will learn techniques for estimating and constructing budgets, as well as for developing realistic schedules. Students will be introduced to set etiquette and strategies for communicating clearly, effectively and concisely. The business of film production will be introduced, with emphasis placed on contracts, legal terms, the complex world of financing and a targeted funding search.

FP 461
PRODUCTION THEORY IV
45 Credit Hours
Prerequisite: FP 361, FP362, FP363
Co-requisite: FP 462, FP 464
Students in the final semester of the Film Production Program will continue to produce their thesis film projects and act in several crew capacities with their classmates. In addition, students will explore and develop a wider experience with music as it relates to scoring films. The students will also host ‘Film Night’ in April including fundraising, promotion, box office and advertising components.

FP 462
PRODUCTION PRACTICES IV
45 Credit Hours
Prerequisite: FP 362, FP 363, FP 364
Co-requisite: FP 463, FP 464
Complex lighting, sound and camera assignments are performed. Supplementary projects including documentary, corporate and educational videos are completed. Advanced information is developed for application on these projects. Emerging production technologies are explored.
Course Descriptions

FP 463 PRODUCTION CONSULTATION IV
45 Credit Hours
Prerequisite: FP 362, FP 363, FP 364
Co-requisite: FP 462, FP 464
Students meet individually several times with their professor to discuss the thesis film and their partner to plan and develop the video documentary/corporate/educational or animation project. Students also meet to discuss their medium and longer-term career objectives. The class trip to a major production centre is planned and information gathered is assessed.

FP 464 POST PRODUCTION IV
45 Credit Hours
Prerequisite: FP 362, FP 363, FP 364
Co-requisite: FP 462, FP 463
Students are introduced to broad concepts of sound mixing and surround sound files and tools. Students will learn how to apply Foley and sound recording techniques to a final sound mix. Basic colour theory and colour manipulation will be explored and applied to work before final output. Outputting to various file types and advanced DVD authoring is also explored.

FP 466 NON FICTION FILM II
45 Credit Hours
Prerequisite: FP 266
Co-requisite: FP 464
Students will develop a new film production skill set based on the creation of short, live-to-tape productions in a studio setting. Students will become competent in the use of a live switcher, a high end sound mixing board and industry-standard tools. Each student will personally direct at least one production, as well as cycle through the many positions required to develop weekly segments.

FP 469 FREELANCING
45 Credit Hours
Prerequisite: Students must be enrolled in the Film Production Program
Students should expect to compete in a ‘freelance’ or ‘contract’ world. Even if full-time employment is obtained, it is likely that everyone will generate projects ‘on the side’, or at least, work on projects outside their main employment. As such, issues of hiring, firing, funding sources, taxes, networking, mentoring and proposal writing are key aspects of building a career. Students must also understand traditional job seeking skills such as interviewing and resumes.

FW 001 INTRODUCTION TO INSTITUTIONAL FOOD SERVICE
18 Credit Hours
Prerequisite: None
This course will provide participants with an overview of food service departments, their structure, and relationship to other departments within the agency. The role of the food service worker within the food service system will also be examined. Topics will include concepts of quality assurance, accreditation and policy and procedures manuals, ethical issues, standards of conduct, and legislation related to food service.

FW 005 BASIC FOOD PREPARATION
19 Credit Hours
Prerequisite: None
This course will examine the principles and procedures of menu development and planning, purchasing food and non-food items, and receiving and storage. The production of quantity food preparation will be explored and students will be given an opportunity practice food preparation skills. Safe food handling techniques will be incorporated into the course.

FW 007 SANITATION AND SAFETY
45 Credit Hours
Prerequisite: None
Learners will examine sanitation and safety of the employee and the customer. This course includes the basics of infection control, causes of food borne illness, safe food handling, sanitary procedures, personal safety, common kitchen and fire hazards, and quality improvement. Legislation, including the Occupational Health and Safety Act, WHMIS, and the Food Premises Act will also be reviewed.

FW 010 FOOD SERVICE EQUIPMENT
30 Credit Hours
Prerequisite: None
This course will teach the student procedures for the operation, cleaning and maintenance of selected kitchen equipment. The importance of a preventative maintenance program and the relationship between menu, equipment and labour will also be examined. This course includes fifteen hours of placement.

FW 015 COMMUNICATIONS AND HUMAN RELATIONS
36 Credit Hours
Prerequisite: None
This course will examine the process and importance of clear communication. Students will learn communication skills that will allow them to interact effectively with clients, managers and co-workers. Learning to deal with change and difficult situations will also be covered.

FW 025 HEALTH AND NUTRITION
56 Credit Hours
Prerequisite: None
This course will examine the basic principles of nutrition, Canada’s Food Guide to Healthy Eating, nutritional requirements throughout the lifecycle and the rational and importance of therapeutic diets. It will also look at the factors that influence food intake and eating habits, and methods of assisting customers to meet their nutritional requirements.

FW 120 FOREST MECHANIZATION I
52 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces students to past and present harvesting methods and will emphasize full tree, cut-to-length and tree length harvesting systems, machine types and use. Machine sub-systems, including hydraulic, power train, and attachments will be studied in detail.
FW 214
FOREST OPERATIONS
60 Credit Hours
Prerequisite: FW 120
This course covers the planning, layout and implementation of harvest, renewal and tending operations. Emphasis is placed on linkages to silvicultural objectives, environmental protection and other forest uses. Relevant provincial legislation and guidelines are reviewed and a focus is placed on planning and implementing operations in an “ecosystem” context. Students will become proficient on the harvest simulators, to gain an appreciation of the complexities involved in mechanized forest operations.

FW 355
FOREST TECHNICIAN CO-OP WORK PLACEMENT I
640 Credit Hours
Prerequisite: Successful Completion of all core courses in semesters 1 & 2
The placement is negotiated and coordinated by the Placement Office and the Program Coordinator. The procedures and regulations pertaining to this placement will be according to the College’s “CO-OP HANDBOOK FOR STUDENTS”. During this work placement, the actual duration of which will be 16 weeks, the student has the opportunity to apply his/her theory and practical skills in a full-time work situation outside of the academic environment. This will help the student in developing his/her long-term career goals. In addition to having his/her work performance evaluated by the employer, the student will complete and submit for evaluation a formal report describing the placement.

FW 400
FOREST INVENTORY
39 Credit Hours
Prerequisite: NR 100, NR 110, MA 115
This advanced mensuration course builds on the concepts learned in Mensuration I. Sampling designs and statistical methods for forestry-related surveys will be highlighted. Various techniques for conducting forest inventories will be examined. The students will be responsible for planning and implementing an inventory of proposed harvest area and producing a report based on their results. The development and calibration of forest growth and yield models will be examined and a thorough evaluation of the soil/site factors impacting stand productivity will be undertaken. An introduction to wood measurement (scaling) and its associated manuals and tools, will be provided through class and field training.

FW 410
PHOTOMETRY & MAPPING
39 Credit Hours
Prerequisite: NR 100, NR 110, NR 130
A practical introductory course in the theory and application of photo interpretation. Scale determination, height measurement, and tree identification (using aerial photographs) will be taught (and practiced). Each student will submit a final project that involves both field data collection, and the delineation of stand boundaries and inventory attributes.

FW 411
GEOGRAPHICAL INFORMATION SYSTEMS II
39 Credit Hours
Prerequisite: NR 213
In this course students will continue developing their GIS skills as they expand their knowledge on map projections and coordinate systems, vector and raster data models and analysis, spatial and attribute data editing, and cartography. Emphasis will be placed on the theoretical concepts and applying those concepts to real world applications.

FW 412
SILVICULTURE
39 Credit Hours
Prerequisite: NR 110, NR 130, NR 216, & 2nd Year Field School
This applied silviculture course covers the theory and practice of planned forest regeneration. Topics include (but are not limited to) silviculture systems, seed production and extraction, container nursery practices, vegetation management, natural regeneration, site assessments, setting management objectives and prescription formulation, silviculture effectiveness monitoring, and density management. Students must develop detailed crop plans.

FW 414
FOREST PATHOLOGY/ENTOMOLOGY
39 Credit Hours
Prerequisite: 2nd Year Fall Field School
Co-requisite: NR 110, NR 215, NR 216
This course introduces students to the study of insects and diseases that impact the quality and value of our forest resources. Insect and disease identification, classification, and tools for controlling outbreaks are discussed. The important role these organisms play in forest ecosystems are highlighted.

FW 415
FALL FIELD SCHOOL (2 WEEKS)
88 Credit Hours
Prerequisite: Successful completion of first 3 semesters.
Fall field school for second year students involves both day trips and a stay in a local camp setting. Emphasis is on water crossings, compliance, photo-interpretation, silviculture, prescription setting, regeneration assessments, and the use of density management diagrams for crop planning.

FW 510
FISH & WILDLIFE MANAGEMENT
45 Credit Hours
Prerequisite: Successful completion of 1st year
This course will provide Forestry Technicians with an awareness of fish and wildlife management policies, regulations and guidelines in Ontario and Canada. Lectures will focus on management techniques for minimizing the effects of forestry operations on fish and wildlife habitat, along with natural disturbance pattern guidelines and survey principles. Labs will focus on fish and wildlife identification and life biology, and include the following topic areas: aquatic invertebrates, freshwater fish, reptiles and amphibians, birds, and mammals. As part of this course, students will complete a Wildlife Tracks & Signs Assignment and deliver a 10-minute PowerPoint presentation on a fish and wildlife management-related subject.

FW 511
FOREST FIRE MANAGEMENT
60 Credit Hours
Prerequisite: Successful completion of 1st & 2nd years
This course is intended to introduce students to the natural role of fire in forested ecosystems, and the systems and practices used in forest fire management. Principles of weather, fuel types, and fire behaviour will be explored within the context of the Canadian Forest Fire Danger Rating System. The ecological effects of fire at both the stand and landscape levels will be examined, as they relate to forest biodiversity and health. The use of prescribed fire as a silvicultural tool to meet land management objectives is presented.
**Course Descriptions**

**FW 512 FOREST MANAGEMENT PLANNING**
75 Credit Hours
Prerequisite: NR110, NR130, FW400, FW410, FW411, FW412
Students will study the Acts, policies, manuals and guidelines relating to Forest Management Planning in Ontario. Topic areas include strategic planning, public participation, issue resolution, calculation of allowable harvest area, values protection, five-year planning of forest operations, access planning and water crossings, silviculture ground rules, annual work schedule production, compliance, and reports of completed operations. Students will produce and present a draft plan incorporating the principles of integrated resource management.

**FW 513 FOREST BUSINESS MANAGEMENT**
45 Credit Hours
Prerequisite: Successful Completion of 1st and 2nd years
This course provides students with the basic business skills required in supervising forestry operations, and/or to establish and operate a small forestry business. Basic accounting, budgeting, financing, machine cost analysis, contract negotiation, and pertinent government legislation will be studied.

**FW 655 FORESTRY TECHNICIAN CO-OP WORK PLACEMENT II**
640 Credit Hours
Prerequisite: Successful completion of all core courses
This placement is negotiated and coordinated by the Placement Office and the Program Coordinator. The procedures and regulations pertaining to this placement will be according to the College’s “CO-OP HANDBOOK FOR STUDENTS”. During this work placement, the actual duration of which will be 16 weeks, the student has the opportunity to apply his/her theory and practical skills in a full-time work situation outside of the academic environment. This will help the student in developing his/her long-term career goals. In addition to having his/her work performance evaluated by the employer, the student will complete and submit for evaluation a formal report describing the placement.

**GB 202 BUSINESS LAW**
45 Credit Hours
Prerequisite: Program Admission
Requirements
The purpose of this course is to introduce the student of Aviation Flight Management to the Canadian legal system through an examination of criminal law, tort, contract, bailment, labour and real property law.

**GB 317 (*OL equivalency: OL102) BUSINESS LAW & ETHICS**
45 Credit Hours
Prerequisite: None
This course presents a practical study of Canadian business law, including the legal and administrative systems, torts, contracts, employment laws, and general legal considerations that arise for a business. In addition, students will assess intellectual property, patent, trademark, copyright, and franchising laws and apply them to business cases.

**GB 318 CULTURE AND COMMUNICATION**
45 Credit Hours
Prerequisite: None
Culture impacts every aspect of an international business transaction, from contract negotiation to personnel management. In fact, many international business activities fail due to cultural misunderstandings. In this course students develop an understanding of culture, cultural differences and their own cultural orientation. Verbal and non-verbal communication is examined in the context of different cultural environments and students determine their own level of inter-cultural effectiveness through the completion of a comprehensive self-assessment.

**GB 319 (*OL equivalency: OL083) INTERNET BUSINESS & E-COMMERCE**
45 Credit Hours
Prerequisite: None
Business expansion has been greatly facilitated by the Internet and the growing acceptance of electronic commerce. E-commerce has reduced the cost of doing business in the global market place, facilitating reduced communication costs, effective overseas marketing, improved inventory control and economies of scale. This course introduces students to the specific uses of e-commerce and the Internet in business. It examines the various impacts e-commerce can have on a small or medium sized business, the essentials of web design and the most effective and profitable uses of the Internet for business development national and internationally.

**GB 420 MARKET RESEARCH FOR THE 21ST CENTURY**
45 Credit Hours
Prerequisite: Program Admission
Requirements
Businesses, whether local, national or international need up-to-date market information in order to make effective decisions. This course will focus on the process of acquiring information that can be utilized to research market opportunities and design effective marketing strategies. Students will examine the research process and work with clients to design a research plan that includes a focus group assignment and create a survey. The focus group will be done in a professional on-site lab.

**GB 500 (*OL equivalency: OL607) STATISTICS**
45 Credit Hours
Prerequisite: MA 132
An applied approach is used to introduce students to descriptive and inferential statistics. Students will be able to summarize data, use graphical techniques, and apply probability methodologies. Students will use Excel to analyze and describe data numerically and graphically.

**GE 010 CHILD DEVELOPMENT I**
45 Credit Hours
Prerequisite: Program Admission
Requirements
This course provides an introduction to the study of child development as it is understood by the dominant culture and as it relates to the institutional setting of the school. Students will gain an introductory knowledge of the physical, mental and social/emotional/spiritual growth of children during early, middle, and late childhood as well as during adolescence. Opportunity will be provided for students to reflect on the applicability of this knowledge to their own cultural and community norms.

**GE 025 MODERN GREEK AND CULTURE I**
32 Credit Hours
Prerequisite: Program Admission
Requirements
This course gives students an introduction to Greek culture and language. Students will learn the Greek alphabet, useful words and phrases, listen to, read and role-play dialogues, in order to develop basic language functions for everyday communication. From the video component on Greece, students will learn about cities, islands, people, culture, music and history and will be able to interact in English on cultural topics with the instructor and fellow learners and also incorporate some of the information into true-to-life mini conversations.
GE 059  
PEOPLE AND THE FOREST  
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
Forests are an essential part of the life and  
economy of the people of Canada. People  
live in the forest, work in the forest, “play” in  
the forest; forests have and will continue to  
shape the history, society and economy of all  
who live in Canada. Students will explore the  
history of the indigenous peoples of Canada  
and their relationship to the forest. Together,  
students will gain a deeper understanding  
of both the intangible and non-timber  
resources of Canadian forest ecosystems.  
Forestry issues related to sustainable forest  
management, global politics, traditional  
First Nations culture and use of the forest,  
alternative energy sources, wood supply,  
tourism and eco-tourism, and environmental  
concerns will be discussed.

GE 060  
SUPERVISORY SKILLS & CONFLICT  
RESOLUTION  
45 Credit Hours  
Prerequisite: Successful completion of 1st  
year  
Effective supervisors are able to organize  
and motivate their staff to successfully  
and productively accomplish tasks and  
goals. Valuable employees are able to take  
direction and responsibility for assigned  
tasks as individuals and as team members.  
In this class, students will learn about and  
practice “people management” skills,  
including empathic listening and self-  
awareness (personal assessment and  
development). The art of conflict resolution  
in the workplace will be learned and  
pRACTiced (leaders and “team players”).  
Working in groups, students will research,  
present, and lead a short class discussion  
on an assigned Natural Resources conflict  
issue (conflict and natural resource use).

GE 067  
FOODS OF THE AMERICAS:  
INDIGENOUS CULTURE AND HISTORY  
30 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This course provides students with a  
Foundation for understanding the traditional foods of the  
Americas including the techniques, customs  
and culture surrounding the gathering,  
preparation, and serving of food.

GE 080  
FOOD OF THE AMERICAS  
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This course provides students with a  
Foundation in the traditional foods of the  
Americas including the techniques, customs  
and culture surrounding the gathering,  
preparation, and serving of food.

GE 103  
HUMAN SEXUALITY  
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
The biological, psychological, and social  
aspects of human sexuality are the focus  
of this course. Students will have the  
opportunity to gain factual knowledge  
and examine their own values related to  
human sexuality. Students will also gain  
practical information about sexual anatomy,  
contraception, and sexually transmitted  
diseases, as well as examine psychosocial  
aspects of sexuality such as sexual  
orientation, gender issues, behaviour options  
and sexual victimization.

GE 108  
TIME AND STRESS MANAGEMENT  
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This course is about understanding and  
managing stress, time and anger. Students  
will progress through meaningful exercises  
designed to reduce the harmful effects  
of poorly managed emotional responses.  
Students will apply stress, time and anger  
management techniques to their own  
lives using an integrated approach that  
incorporates a variety of theories and  
models.

GE 113  
MAKING THE GRADE  
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
You are living in a world of enormous  
change. This is a world where technology  
turns dreams into reality, where people  
from every land and culture interrelate and  
where new opportunities are created daily.  
You will be faced with many choices. You  
will have to decide what to study, what  
career to pursue, what lifestyle to adopt  
and even what to believe. Two keys will  
help you get to where you want to go. The  
first is an open mind. This means you must  
be a receptive learner. When you remain  
open to information your choices become  
clearer. The second key is motivation. You  
will need the drive and determination to  
take advantage of available opportunities.  
This course will provide you with the tools  
you need to develop the skills, knowledge  
and attitudes for building a successful  
future. You will learn to set lifelong learning  
goals, enhance your communication skills,  
appreciate diversity, manage time and  
stress pressures and improve your study  
and thinking skills. Congratulations on taking  
this first step to achieving your personal and  
professional goals.

GE 134  
ETHICS  
30 Credit Hours  
Prerequisite: Program Admission  
Requirements  
All civilizations employ ethical systems to  
guide social behaviour. In this course we  
will grapple with the ethical dilemmas facing our  
postmodern worlds of art, business, science,  
and society. Be prepared to think, discuss  
and write about contentious moral issues.

GE 154  
CONVERSATIONAL OJIBWE I  
32 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This course provides the learner with the  
opportunity to discover the origin and  
meaning of the Ojibwe language. The  
cultural component is interwoven with  
language study. Use of charts, maps,  
illustrations and photographs helps link  
culture, history and language together. A  
chapter by chapter systematic building  
block approach is used to learn the Ojibwe  
language through cultural activities,  
functional exercises in class and oral  
studies.

GE 155  
CONVERSATIONAL OJIBWE II  
32 Credit Hours  
Prerequisite: GE 154/KL 109 or some  
knowledge of Ojibwe  
In this program the learner will continue  
to focus on Ojibwe culture with language  
study. Through the use of a text and audio  
tapes in-class the student will acquire an  
appreciation for a culture and language that  
that is known as Western Ojibwe and is used in  
and around Thunder Bay.
Course Descriptions

GE 220 (*OL equivalency: OL913)  
PERSONAL FINANCIAL PLANNING I  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will give the learner practical instruction in personal economics, the art of handling money, and managing one’s financial affairs. Topics covered include budgeting, income tax, banking, credit, insurance, investing, and retirement and estate planning.

GE 269  
GLOBAL CURRENT EVENTS  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Be an informed citizen! As countries become increasingly interdependent, it is critical to develop an awareness and understanding of how events taking place in different parts of the world affect us. Now, more than ever before, we need to have an appreciation of global current events to make informed decisions in both our working and private lives. This course provides an open and respectful forum for students to air their opinions on a variety of topics. Discussions focus on current political, economic and business issues and events. Weekly assigned readings, lively class room discussion and debates and team presentations characterize this highly interactive course.

GE 275  
INDIGENOUS TOURISM  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course provides introductory exposure to the Aboriginal, Eco and cultural tourism sector by guiding students through a series of cultural experiences relevant to Indigenous, rural and remote communities in Northwestern Ontario. The course emphasizes an understanding of the nature of culture itself, as well as the stresses occasioned by intercultural relationships. This course is designed to address the particular challenges of approaching culture as a tourist in a manner that is authentic, experiential, and respectful. Topics covered also include an investigation of regional, national, and international markets for historical/cultural tourism products.

GE 302  
SCIENCE OF MOTION  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This science course endeavours to develop an understanding of the concepts of motion encountered in the physical world. It attempts to provide understanding of why and how things move. The course uses the international system of measurement to describe motion and the cause of motion. It covers topics related to the description of moving objects and topics focussing on the causes of the different types of motion that objects undergo. It further relates how motion can be harnessed to create useful work and provide energy and power for human consumption and how work must be done and power and energy used to create different types of motion.

GE 330  
HISTORY THROUGH THE MOVIES  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
With 1950 as the starting date, we will examine how large trends and global events have influenced the movies. Film genres will be explored.

GE 374  
CAREER AND PORTFOLIO DEVELOPMENT  
45 Credit Hours  
Prerequisite: BT 126 and BT 128  
Plan and prepare a plan a career development and lifelong learning path that may include establishing a small business and/or job search skills and attitudes.

GE 376  
OPERATIONS MANAGEMENT  
45 Credit Hours  
Prerequisite: None  
This course focuses on all aspects of the management of the processes used to produce and distribute products and services. It will examine the concepts and techniques used to solve complex problems in areas such as inventory management, quality assurance, forecasting, project management, and production planning and control. This course includes substantial analysis of internal processes to determine efficiency and effectiveness of the process.

GE 406  
MEASURING QUALITY IN THE WORKPLACE  
30 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will introduce the students to the historic background of quality and productivity and look at the impact of both on living standards. Various quality management philosophies and the tools used to improve quality will be discussed. Students will examine the core concepts of Total Quality Management (TQM) and learn how a TQM environment is established. The ISO 9000 series of quality standards will also be examined.

GE 516  
COMMUNITY DEVELOPMENT PROCESSES  
45 Credit Hours  
Prerequisite: Program admission requirements  
This course will explore community development issues and the process of community development in Aboriginal communities in Canada. The expertise of Aboriginal peoples and their communities in addressing issues of development will be highlighted throughout. The course will provide students with the knowledge and skills to engage communities in meaningful dialogue and to research and plan strategies to assist communities in reaching their development goals.

GE 568  
CAREER READINESS  
45 Credit Hours  
Prerequisite: None  
This course will ready students in their final year of college for program-related work experience and employment. Students will create a “toolbox” of skills that enables them to adapt to the challenges of the evolving workplace. The application of best practice strategies and techniques will assist students to attain their career aspirations.
Course Descriptions

GE 701
THE CHANGING WORKPLACE
45 Credit Hours
Prerequisite: Program Admission
Requirements
This course is designed to prepare the students to compete for the jobs, which will be available, when they enter the workplace. The student will learn job search techniques, create letters and a resume. The student will learn to use the Internet effectively and examine current workplace legislation and practices such as WHMIS, Occupational Health and Safety, Worker Rights, Canada Pension and HRDC benefits. This course places emphasis on planning to meet deadlines and working individually towards a goal.

GS 114 (*OL equivalency: OL342)
CONVERSATIONAL FRENCH I
36 Credit Hours
Prerequisite: Program Admission
Requirements
This course introduces the learner to basic French, the French-speaking world and the francophone culture from Quebec. The learner is guided through realistic contexts to language forms, communicative practice, active vocabulary, awareness and appreciation of the francophone culture, integrated activities, and meaningful and personalized conversations. Also, the student will practice contemporary situations in functional drills reflecting details in culture and language use in France and francophone Canada.

GS 116
CONVERSATIONAL FRENCH IV
36 Credit Hours
Prerequisite: GE 412 or GS 129 (or some spoken French)
In this course students begin active communicative practice of French at the intermediate level. Learners will review basic grammar topics previously acquired, practice intermediate-level grammatical structures, use language in functional, linguistic, social, and situational contexts and explore French culture and themes. Learners will develop a broad repertoire of French vocabulary and expressions that will enable them to use the language accurately to role play a variety of common situations, gain cultural insights and make cross-cultural comparisons.

GS 117
CONVERSATIONAL FRENCH V
36 Credit Hours
Prerequisite: GE 116 (or some spoken French)
This is the second intermediate-level French course in a series of three. Through cultural themes and functional communicative tasks, learners initiate conversation and respond or react to it. Learners review and further develop grammatical control of the language by performing varied activities in set and open-ended situations revolving around authentic themes. From authentic cultural materials, students gain insights into what French speakers and contemporary French society are like and compare or contrast the cultural focus with their own culture.

GS 118
CONVERSATIONAL GERMAN I
36 Credit Hours
Prerequisite: Program Admission
Requirements
In this course learners are introduced to the basic concepts of the German language in order to enable them to communicate effectively in every day situations in a German speaking environment. The students will study a functional conversational program which includes vocabulary relevant to every day topics and to the understanding of German culture, elements of grammar, free and structured conversations and videos.

GS 129
CONVERSATIONAL FRENCH III
36 Credit Hours
Prerequisite: GS 115
In this course the learners will develop vocabulary skills and structures for communication in a French-speaking environment. The learners will reflect on, respond to, and personalize language functions and exercises in authentic situations.

GS 130
SPANISH CULTURE AND LANGUAGE I
36 Credit Hours
Prerequisite: Program Admission
Requirements
In this course the learner is introduced to the customs and values that characterize the different Hispanic cultures and to the basic concepts of the Spanish language. Emphasis is placed upon culture in context, essential vocabulary, sentence structure and idiomatic expressions, enabling the learner to communicate effectively in a Spanish-speaking environment and develop appreciation of the Hispanic world.

This is achieved through a functional conversational program, which includes elements of grammar, free and structured dialogues, drills, audio and video segments and question-answer interaction on culture with the instructor and fellow learners.

GS 134
CONVERSATIONAL PORTUGUESE I
32 Credit Hours
Prerequisite: Program Admission
Requirements
In this course the student will assimilate a variety of useful expressions, practical topics, and some grammar rules, necessary to get by in a Portuguese environment (Brazil included). Through role playing, dialogues, conversation and oral drills, the student will also be able to communicate in Portuguese at the beginner level.

GS 138
CONVERSATIONAL GERMAN II
32 Credit Hours
Prerequisite: Program Admission
Requirements
In this course learners are introduced to the basic concepts of the German language in order to enable them to communicate effectively in every day situations in a German speaking environment. The students will study a functional conversational program which includes vocabulary relevant to every day topics and to the understanding of German culture, elements of grammar, free and structured conversations and videos.

GS 140
CONVERSATIONAL ITALIAN II AND CULTURE
36 Credit Hours
Prerequisite: GS 141 or very basic Italian
In this course the student will acquire more expansive vocabulary, structures and cultural know-how for communication in an Italian speaking environment. This is achieved through an intensive culturally relevant, conversational program which includes more intricate grammatical structures, relevant vocabulary, oral questioning, videos and drills.
GS 141
CONVERSATIONAL ITALIAN I AND CULTURE
36 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to contemporary Italian life, culture and the Italian language. The dialogues, readings and cultural topics depict for the learner life in Italy today. Likewise, the visual images and the realia of the text convey to the learner an accurate and lively portrait of the Italian-speaking world. The student also will learn that the largest ethnic group in Thunder Bay is of Italian descent and, thus, will be able to observe and reflect on cultural parallels in the diverse Canadian cultural mosaic. Furthermore, Italian culture and language will be presented and practised through some selected video material. Throughout the course the student will function in basic spoken Italian. The student will practice guided conversation in class, assimilate vocabulary and grammatical structures, develop effective communicative skills of listening, speaking and reading within a cultural context and everyday social situations.

GS 148
CONVERSATIONAL SWEDISH I
32 Credit Hours
Prerequisite: Program Admission Requirements
In this course the students will develop and practise basic concepts of the Swedish language in order to communicate effectively in a Swedish environment. This involves vocabulary relevant to every day topics and to the understanding of the Swedish culture, elements of grammar, free and structured conversations and tape work.

GS 168
CONVERSATIONAL SPANISH IV
32 Credit Hours
Prerequisite: GE 156 or spoken Spanish
In this course learners become proficient in Spanish at the more advanced level and further explore Hispanic culture. Through various communicative strategies (skits, narratives, dialog), learners continue to develop their oral skills in Spanish. Grammar, especially the use of the compound tenses is presented in authentic functional situations and is, therefore, readily understood and assimilated.

GS 169
CONVERSATIONAL SPANISH V
32 Credit Hours
Prerequisite: GS 168 or spoken Spanish
In this level the student will continue to develop communicative competence in Spanish. The finer points of grammar and the subjunctive are incorporated into active linguistic practice reflecting contemporary usage. The student will acquire greater flexibility in communication as emphasis is placed on the communicative function of the grammatical items. The student will engage in whole-class discussions, small-group activities, role-playing, presentations, demonstrate the principles learned in the units of study, develop a wider range of language proficiency and acquire further insight into Hispanic daily life and culture.

GS 196
CONVERSATIONAL FRENCH VI
36 Credit Hours
Prerequisite: GS 117 (or some spoken French)
This is the third intermediate-level French course in a series of three. In this course students will review and integrate new grammatical structures with active language functions and communicative contexts. Learners will practice the functions in realistic situations and perform diverse and detailed communication tasks and carry out sophisticated exchanges of information and ideas. Students will also enhance their cultural knowledge by comparing or contrasting the cultural information presented in the text with their own culture.

GS 250
CONVERSATIONAL CHINESE (MANDARIN) II
32 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed for students with some knowledge of Chinese. The learner is provided with basic communicative concepts for immediate application of the language. The language ability is achieved through exploration of short conversational themes and use of language audio CDs.

GY 199
TRAVEL THE WORLD IN 48 HOURS
45 Credit Hours
Prerequisite: Program Admission Requirements
Fasten your seat belts and get ready to take an amazing journey to the many exotic destinations of the world. Let air, land and sea transportation weave you through various cultural locations through the language of geography. Learn to access and interpret essential information for traveling abroad.

HA 328
FIELD PLACEMENT
64 Credit Hours
Prerequisite: Program Admission Requirements
This important component of the Culinary Management program will provide the student with hands-on practical exposure to the culinary industry. It consists of a two-week training placement in an approved fine dining restaurant or hotel setting (kitchen operation), and is based on a 40-hour training week.

HA 428
FIELD PLACEMENT INTERNATIONAL
64 Credit Hours
Prerequisite: Eligible to Graduate
This course will enable the students to travel and work in an international hospitality operation. A specific program of involvement is presented to the student for this international work experience. The offering of this experience in an international setting is not guaranteed but rests with the opportunities and contacts available on a year-to-year basis at the students’ expense.

HC 121
APPLIED WORK PRACTICES
84 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces students to accident prevention, various hand and power tools, measuring tools, testing and shop equipment as it applies to Motive Power Trades. The student gains an understanding of fasteners, tubing, fittings, fuels, lubricants, coolants, sealants and adhesives. A basic knowledge of blueprint reading, drawing, welding, cutting and Workplace Hazardous Material Information System (WHMIS) and machine operation is ensured.

HC 122
ENGINES
84 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces and exposes students to basic theory and practice of diesel and gasoline engines and ancillary systems found in heavy duty, small powered equipment and service industry. The course contains gas and diesel engine components, cooling and lubricating system fundamentals.
Course Descriptions

HC 123
ELECTRICITY & ELECTRONICS
101 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to basic electrical and electronic DC theory as used in motive power equipment. The learner will become familiar with batteries, lighting, accessory, ignition, starting and charging systems. The emphasis is on safety, fundamental operating principles, hands-on maintenance, testing, adjusting and general repair procedures according to accepted industry practices.

HC 240
FLUID POWER SYSTEMS
76 Credit Hours
Prerequisite: Successful completion of first semester subjects.
The student is able to interpret schematics and perform pressure, force, and area calculations related to hydraulics.

HC 241
ELECTRICAL & ELECTRONICS II
57 Credit Hours
Prerequisite: Successful completion of first semester subjects.
Demonstrate a working knowledge of the purpose, principles of operation and applications of electrical concepts.

HC 242
HEAVY DUTY FUEL SYSTEMS
75 Credit Hours
Prerequisite: Successful completion of first semester subjects.
Demonstrate a working knowledge of the purpose, function and properties of fuels and the combustion of fuels.

HC 243
DRIVE TRAIN SYSTEMS
75 Credit Hours
Prerequisite: Successful Completion of first semester subjects.
The student will have demonstrated the ability to understand the principles of operation, diagnose and repair clutches and flywheels assemblies.

HC 244
STEERING, SUSPENSION & BRAKES
57 Credit Hours
Prerequisite: Successful completion of first semester subjects.
The student is able to perform repairs following manufacturers’ recommendations and safe work practices of hydraulic brake systems.

HC 245
FIELD PLACEMENT (2 WEEKS)
80 Credit Hours
Prerequisite: Successful completion of all first and second semester subjects.
Students are placed for a two week period in selected industry throughout the Northwestern Ontario region and are expected to satisfactorily perform basic functions under the supervision of industry personnel. Performance evaluations will be conducted by both industry supervisors and college staff.

HN 200
FAMILIES AND PARENTING
45 Credit Hours
Prerequisite: Program Admission Requirements
This course provides a framework for examining the diversity of family constellations, interactions, parenting styles and the impact of interactions on children and adults. These interactions, both positive and negative, have formed individual self-identity and self-esteem. Recognizing these influences and making choices that improve one’s sense of self are critical to the worker and to those they serve. Nurture, structure and empowerment are key themes that will be explored, both in relation to the student’s life experiences and their future role as human service workers.

HO 100
INTRODUCTION TO HOSPITALITY AND TOURISM COMPUTERS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces students to the use of Microsoft Office 2007 applications and Windows XP. Specifically, students will use basic and intermediate features of Windows XP, Microsoft Word 2007, Excel 2007, PowerPoint 2007 and Publisher 2007 to perform tasks commonly encountered in the workplace. Students learn the basics through independent learning using computer simulation software and then attend weekly lab sessions to learn the application of the basics to specific projects.

HO 110
FOOD AND BEVERAGE SERVICE THEORY/PRACTICAL
75 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces students to basic table set up, service and personal grooming for the restaurant industry. The students will augment their theory by operating an on-campus dining room. The practical portion introduces students to personal hygiene for food service worker, safe food handling, sanitation and basic knowledge of food preparation.

HO 112
MIXOLOGY AND WORLD OF WINE
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide the student with a basic understanding of the responsible service of alcohol and provide the skills necessary to mix all classifications of drink, proper use of garnishes and equipment common to bar operation. This course will also introduce the student to the history, mystique and ritual of wine. Students will learn handling, storage, techniques of wine service as well as tasting wine from around the world.

HO 114
INTRODUCTION TO HOSPITALITY AND TOURISM
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide the student with a basic understanding of the key issues involved in the lodging and food service industry and tourism.

HO 125
FIELD PLACEMENT
60 Credit Hours
Prerequisite: Successful Completion of all First Semester Courses
Through placement in an actual fieldwork situation, the student will gain practical experience in participating with local hospitality establishments. A specific program of involvement is presented to the student for either “back of the house” or “front of the house” work experience. They will also be given the opportunity to apply classroom theory in a practical setting.

HO 150
COMPUTER SKILLS APPLICATIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to the use of a computer as a business tool. Specifically, the student uses Microsoft Word, Excel and PowerPoint to create menus, portfolios, and documents for the food service industry. An introduction in the use of hospitality POS systems will be given to students.
HO 205
INTRODUCTION TO DINING ROOM SERVICE (LAB)
60 Credit Hours
Prerequisite: Program Admission Requirements
The student will experience basic and advanced service techniques for food and beverage. Our on campus restaurant will be used for practical service applications along with a hospitality POS system. Students will obtain “smart serve” certification along with customer service training.

HO 210
FOOD & BEVERAGE SERVICE THEORY/ PRACTICAL II
75 Credit Hours
Prerequisite: HO 110
This course will provide the student with advanced table service techniques for the restaurant and catering industry. The practical portion (lab) introduces students to three course set menus in which they will prepare a variety of appetizers, main courses and desserts.

HO 212
FRONT OFFICE OPERATIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide the student with an overall view of the working at a front office at a hotel including layout, communications, registrations, reservations and night audit.

HO 214
GUEST SERVICE/TOURISM IN NORTHWESTERN ONTARIO
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce the student to dealing with diverse service requirements and tourism in Northwestern Ontario.

HO 225
FIELD PLACEMENT
60 Credit Hours
Prerequisite: Successful completion of first year courses
Through placement in an actual fieldwork situation, the student will gain practical experience in participating with local hospitality establishments. A specific program of involvement is presented to the student for either “back of the house” or “front of the house” work experience. They will also be given the opportunity to apply classroom theory in a practical setting.

HO 300
FOOD & BEVERAGE CONTROL
45 Credit Hours
Prerequisite: BM 109, HO 210
This course will provide the student with a basic understanding of techniques used for the control of food, beverage, labour and sales income control. Systems and reports used in contemporary hotels and restaurants will be studied.

HO 312
HOSPITALITY AND RESTAURANT MANAGEMENT
45 Credit Hours
Prerequisite: HO 210
This course will provide the student with a basic understanding of techniques used for the management of hospitality and restaurant establishments.

HO 316
CULTURAL DIVERSITY AND INTERNATIONAL SERVICE
45 Credit Hours
Prerequisite: HO 210
The student will study dealing with cultural differences in the hospitality industry found in Northwestern Ontario as well as learn the different types of service used in international cuisine.

HO 340
HOSPITALITY MARKETING AND SALES
45 Credit Hours
Prerequisite: Program Admission Requirements
This course provides the student with basic understandings of the key issues involved in the basic functions of marketing and sales for the hospitality industry.

HO 401
HOSPITALITY HUMAN RESOURCE MANAGEMENT
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide the student with basic fundamentals of Human Resource Management in the Hospitality industry. Labour unions, negotiation and collective bargaining, social responsibilities and ethics will also be studied.

HO 410
HOUSEKEEPING, CATERING AND CONVENIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide instruction in the fundamentals of housekeeping management. It stresses employee training, record keeping, executive responsibilities, work methods, safety, sanitation, cleaning materials and procedures, interior design and flooring. It also covers techniques to control staff and equipment for banquets and conventions; develop techniques to assess the quality of competition and establish food and beverage policies, organize the functions of the banquet department within food service operations and hotels.

HO 412
ADVANCED DINING ROOM SERVICE (LAB)
60 Credit Hours
Prerequisite: HO 316
This course will provide the student with the knowledge to run and operate a small restaurant operating our on-campus dining room, the student will be required to plan, cost, order, receive, and serve international food of a very high standard. It will also focus on specialty type of service including religious, ethnic and international.
HR 131 (OL equivalency: OL135)  
**HUMAN RESOURCES I**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Organizations depend on the effective management of its human resources to achieve optimum results. In this course, you will learn how proper recruitment/selection strategies and training and development methods maintain an organization’s competitive advantage. The integral role of job design and analysis in affecting compensation management and performance appraisal decisions will be examined. You will investigate a variety of employment, and health and safety laws as they relate to managing a diverse workforce. In addition, the fundamental principles of the union-management framework will be explored.

HR 232 (OL equivalency: OL173)  
**INTERPERSONAL BUSINESS DYNAMICS**  
45 Credit Hours  
Prerequisite: None  
The demand for multi-skilled employees is increasing in today’s competitive job market. In this course, you will develop your interpersonal skills in becoming an effective, contributing member of an organization. You will learn how to reconcile your personal goals and expectations with the demands of the changing organization. You will apply your knowledge of organizational change and development to organizational structure, behaviour, and dynamics. Particular emphasis will be placed on the development of your conflict resolution and negotiation skills while working within a team environment. While learning more about your personal values and attitudes, you will appreciate the importance of diverse opinions and cultural differences. The successful organization requires employees who can self-motivate and self-monitor their behaviour. Accordingly, students will be challenged to confront the political nature of organizations and acquire both the knowledge skills, and attitudes which will be instrumental in achieving personal success.

HR 304 (OL equivalency: OL142)  
**TRAINING**  
45 Credit Hours  
Prerequisite: HR 131, HR 232  
To meet the challenges of a global economy, organizations must invest in the training and development of their human resources. In this course, you will learn and apply effective training design in the development of a training program. You will conduct a needs assessment and develop a training proposal. Adult learning theories will be woven into the training design. Various training methods and the use of technology will be demonstrated in your training program. In addition, you will learn effective collaborative techniques that promote team cohesiveness and ensure the design and delivery of a quality training program.

HR 306 (OL equivalency: OL404)  
**OCCUPATIONAL HEALTH & SAFETY**  
45 Credit Hours  
Prerequisite: HR 131, HR 232  
This course will introduce the student to the purpose and history of occupational health and safety including accident causation and prevention, proactive health and safety maintenance techniques. Legislation governing occupational health and safety and the Workers’ Compensation will be studied. The interrelationship between occupational health, employment, absenteeism, illness, and the concerns of labour-management will be examined.

HR 313 (OL equivalency: OL174)  
**LABOUR RELATIONS LAW**  
60 Credit Hours  
Prerequisite: HR 131, HR 232  
This course is designed to provide the legal framework of industrial relations in Ontario and Canada. The course will cover the law of master and servant, the right to organize, the process of certification, collective bargaining, conciliation and mediation, and unfair labour practices. In addition, the rights and freedom to strike or lockout, the role of economic pressure, picketing, and its regulations will be examined.

HR 314 (OL equivalency: OL185)  
**COMPENSATION & BENEFITS ADMINISTRATION**  
60 Credit Hours  
Prerequisite: HR 131, HR 232, MC 155  
The human resource function of determining equitable compensation and benefits are a key factor in the attraction, retention, and motivation of qualified employees. This course will examine the philosophy and practical application of compensation and benefits administration. Students will develop a comprehensive job analysis and job evaluation in determining appropriate compensation/benefits. The impact of demographics, economics, and government policies on benefits will also be explored.

HR 401  
**COLLECTIVE BARGAINING**  
45 Credit Hours  
Prerequisite: HR 313, MC 155  
This course is an in-depth study of the collective bargaining process between management and labour. Emphasis will be placed on the practical procedures to be followed in the collective bargaining process. These include strategies, information tactics, tactics of persuasion, back-to-work protocol, and methods of costing the agreement. Special emphasis will be on the definition and understanding of common clauses in a collective agreement and their significance to the parties.

HR 405 (OL equivalency: OL137)  
**EMPLOYEE RECRUITMENT & SELECTION**  
45 Credit Hours  
Prerequisite: HR 131, HR 232  
To remain competitive, organizations must develop a human resources strategy for recruiting, identifying, and selecting employees who will contribute to the organization’s effectiveness. In this course, students will examine recruitment, selection, and orientation methods which meet both legal and socio-economic requirements. Students will practice using assessment tools and develop interviewing skills when producing a comprehensive recruitment and selection plan.

HR 414  
**HUMAN RIGHTS IN EMPLOYMENT**  
45 Credit Hours  
Prerequisite: HR 313  
This course provides an in-depth study of law and practices relating to discrimination in employment. Students will be able to recognize prohibited grounds of discrimination regarding employment and the employer’s obligation to accommodate short of undue hardship. In addition, students will learn appropriate strategies to deal with discrimination and harassment in the workplace and outline the employer’s responsibilities to ensure a harassment free workplace.

HR 419  
**HUMAN RESOURCES INFORMATION SYSTEMS**  
45 Credit Hours  
Prerequisite: TBA  
Co-requisite: TBA  
The purpose of this course is to give the Human Resource professional a basic grounding in a conceptual and tactical introduction to the application of a computer-based information system as it relates to human resources tasks.
HR 501 (*OL equivalency: OL081) 
**GRIEVANCE PROCEDURES AND ARBITRATION**

45 Credit Hours  
Prerequisite: HR 313  
This course is designed to give the student an understanding of the interrelationship between contract and grievance administration, the arbitration process and collective bargaining. The student will be able to demonstrate a recognition of the grievance procedure as a tool for achievement of the vital labour relations function of attaining peaceful and orderly settlement of day-to-day problems arising from the employer-employee relationship. The law and practices relating to labour arbitration in Ontario and other jurisdictions will be studied through decided cases.

HR 506  
**EMPLOYMENT EQUITY/PAY EQUITY LAW**

45 Credit Hours  
Prerequisite: HR 314  
This course is an introduction to pay equity and employment equity law. Pay Equity will focus mainly on the Ontario Pay Equity Act and will emphasize maintenance of pay equity plans as well as proportional value and proxy comparisons. Employment Equity will examine current legislation such as the Federal Contractors Program and the Federal Employment Equity Reporting Act. Also studied will be various methodologies of critically auditing an organization for the purposes of employment equity.

HR 508 (*OL equivalency: OL135) 
**INTRODUCTION TO HUMAN RESOURCES**

45 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Coordinator  
Organizations depend on the effective management of its human resources to achieve optimum results. In this course, you will learn how proper recruitment/selection strategies and training and development methods maintain an organization’s competitive advantage. The integral role of job design and analysis in affecting compensation management and performance appraisal decisions will be examined. You will investigate a variety of employment, and health and safety laws as they relate to managing a diverse workforce. In addition, the fundamental principles of the union-management framework will be explored.

HR 509 (*OL equivalency: OL174) 
**LABOUR RELATIONS LAW**

60 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Coordinator  
This course is designed to provide the legal framework of industrial relations in Ontario and Canada. The course will cover the law of master and servant, the right to organize, the process of certification, collective bargaining, conciliation and mediation, and unfair labour practices. In addition, the rights and freedom to strike or lockout, the role of economic pressure, picketing, and its regulations will be examined.

HR 510 (*OL equivalency: OL185) 
**COMPENSATION AND BENEFITS ADMINISTRATION**

60 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Coordinator  
The human resource function of determining equitable compensation and benefits are a key factor in the attraction, retention, and motivation of qualified employees. This course will examine the philosophy and practical application of compensation and benefits administration. Students will develop a comprehensive job analysis and job evaluation in determining appropriate compensation/benefits. The impact of demographics, economics, and government policies on benefits will also be explored.

HR 511 (*OL equivalency: OL404) 
**OCCUPATIONAL HEALTH AND SAFETY**

45 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Coordinator  
This course will introduce the student to the purpose and history of occupational health and safety including accident causation and prevention, proactive health and safety maintenance techniques. Legislation governing occupational health and safety and the Workers’ Compensation will be studied. The interrelationship between occupational health, employment, absenteeism, illness, and the concerns of labour-management will be examined.

HR 512 (*OL equivalency: OL142) 
**TRAINING**

45 Credit Hours  
Prerequisite: A university degree or college diploma or mature student with five years related work experience and permission of the Coordinator  
To meet the challenges of a global economy, organizations must invest in the training and development of their human resources. In this course, you will learn and apply effective training design in the development of a training program. You will conduct a needs assessment and develop a training proposal. Adult learning theories will be woven into the training design. Various training methods and the use of technology will be demonstrated in your training program. In addition, you will learn effective collaborative techniques that promote team cohesion and ensure the design and delivery of a quality training program.

HR 513 
**COLLECTIVE BARGAINING**

45 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Co-ordinator  
This course is an in-depth study of the collective bargaining process between management and labour. Emphasis will be placed on the practical procedures to be followed in the collective bargaining process. These include strategies, information tactics, tactics of persuasion, back-to-work protocol, and methods of costing the agreement. Special emphasis will be on the definition and understanding of common clauses in a collective agreement and their significance to the parties.

HR 514 
**HUMAN RESOURCES INFORMATION SYSTEMS**

45 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Co-ordinator  
The purpose of this course is to give the Human Resource professional a basic grounding in a conceptual and tactical introduction to the application of a computer-based information system as it relates to human resources tasks.
HR 516 (*OL equivalency: OL081)  
GRIEVANCE PROCEDURES AND ARBITRATION  
45 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Co-ordinator  
This course is designed to give the student an understanding of the interrelationship between contract and grievance administration, the arbitration process and collective bargaining. The student will be able to demonstrate a recognition of the grievance procedure as a tool for achievement of the vital labour relations function of attaining peaceful and orderly settlement of day-to-day problems arising from the employer-employee relationship. The law and practices relating to labour arbitration in Ontario and other jurisdictions will be studied through decided cases.

HR 517 (*OL equivalency: OL115)  
MANAGERIAL ACCOUNTING  
45 Credit Hours  
Prerequisite: None  
This course explains the elements of the four financial statements; the balance sheet, the income statement, the statement of retained earnings, and the statement of cash flows. The managerial component covers budgeting and the balanced scorecard, break-even analysis and decision-making models.

HR 519  
HUMAN RIGHTS IN EMPLOYMENT  
45 Credit Hours  
Prerequisite: A University Degree or College Diploma or mature student with five years related work experience and permission of the Co-ordinator  
This course provides an in-depth study of law and practices relating to discrimination in employment. Students will be able to recognize prohibited grounds of discrimination regarding employment and the employer’s obligation to accommodate short of undue hardship. In addition, students will learn appropriate strategies to deal with discrimination and harassment in the workplace and outline the employer’s responsibilities to ensure a harassment free workplace.

HR 520 (*OL equivalency: OL173)  
ORGANIZATIONAL BEHAVIOUR  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The demand for multi-skilled employees is increasing in today’s competitive job market. In this course, you will develop your interpersonal skills in becoming an effective, contributing member of an organization. You will learn how to reconcile your personal goals and expectations with the demands of the changing organization. You will apply your knowledge of organizational change and development to organizational structure, behaviour, and dynamics. Particular emphasis will be placed on the development of your conflict resolution and negotiation skills while working within a team environment. While learning more about your personal values and attitudes, you will appreciate the importance of diverse opinions and cultural differences. The successful organization requires employees who can self-motivate and self-monitor their behaviour. Accordingly, students will be challenged to confront the political nature of organizations and acquire both the knowledge, skills, and attitudes which will be instrumental in achieving personal success.

HR 521 (*OL equivalency: OL172)  
HUMAN RESOURCES PLANNING  
45 Credit Hours  
Prerequisite: HR 131  
This course is designed to provide the framework for Human Resources Planning as part of the Human Resources Discipline. Successful corporations include succession planning and succession management in their strategic planning. Various statistical methods of internal and external research are examined to allow Human Resource Professionals to make sound strategic decisions that affect the profitability of the corporation.

HR 522 (*OL equivalency: OL172)  
HUMAN RESOURCES PLANNING  
45 Credit Hours  
Prerequisite: A university degree or college diploma or mature student with five years related work experience and permission of the Coordinator (for post-degree students).  
This course is designed to provide the framework for Human Resources Planning as part of the Human Resources Discipline. Successful corporations include succession planning and succession management in their strategic planning. Various statistical methods of internal and external research are examined to allow Human Resource Professionals to make sound strategic decisions that affect the profitability of the corporation.

HR 523 (*OL equivalency: OL137)  
EMPLOYEE RECRUITMENT & SELECTION  
45 Credit Hours  
Prerequisite: HR 131, HR 232  
To remain competitive, organizations must develop a human resources strategy for recruiting, identifying, and selecting employees who will contribute to the organization’s effectiveness. In this course, students will examine recruitment, selection, and orientation methods which meet both legal and socio-economic requirements. Students will practice using assessment tools and develop interviewing skills when producing a comprehensive recruitment and selection plan.

HR 530  
CO-OP WORK PLACEMENT  
620 Credit Hours  
Prerequisite: Program Admission Requirements  
This four-month block placement with a large industrial or public sector establishment/union will provide the student with an opportunity to apply his/her theoretical knowledge and skills to practical situations.

HR 600  
WORK PLACEMENT  
540 Credit Hours  
Prerequisite: Successful completion of the previous five semesters  
This four-month block placement with a large industrial or public sector establishment/union will provide the student with an opportunity to apply his/her theoretical knowledge and skills to the practical situation.

HS 118  
WINDOWS FOR SERVICE PROFESSIONALS  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will learn how to operate a microcomputer in a network environment, and will gain some understanding of how the basic components of a microcomputer function. They will learn how to use basic operating system commands and how to use word processing, presentation, and spreadsheet software at an introductory level. The student will become familiar with using the Internet for research as well as for email purposes.
Course Descriptions

HS 119
OSTEOLOGY (Appendicular Skeleton)

15 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: RA 105 and HS 115
This course is designed for students enrolled in the Practical Nursing, Paramedic and Medical Radiation Technology Diploma programs. The course is designed to introduce the student to the fundamental terms of Anatomy and Physiology and the structures and functions of the various systems of the human body. It will provide the student a foundation for the subsequent study of other health related classes.

HS 125 (*OL equivalency: OL432)
ANATOMY AND PHYSIOLOGY I

45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed for students enrolled in the Practical Nursing, Paramedic and Medical Radiation Technology Diploma programs. The course is designed to introduce the student to the fundamental terms of Anatomy and Physiology and the structures and functions of the various systems of the human body. It will provide the student a foundation for the subsequent study of other health related classes.

HS 219
OSTEOLOGY (Axial Skeleton)

15 Credit Hours
Prerequisite: HS 121 and HS 119
Co-requisite: RA 205 and HS 221
This course is designed for students enrolled in the Medical Radiation Program. The students will further enhance their working knowledge and understanding of the skeletal system by studying the growth and development of bone, as well as, the examination and identification of the bones and joints of the axial skeleton.

HS 225 (*OL equivalency: OL442)
ANATOMY AND PHYSIOLOGY II

45 Credit Hours
Prerequisite: HS 121
This course is intended for students enrolled in the Practical Nursing, Paramedic and Medical Radiation Technology Diploma programs. The course is designed to introduce the student to the fundamental terms of Anatomy and Physiology and the structures and functions of the various systems of the human body. It will provide the student a foundation for the subsequent study of other health related classes.

HU 024
HISTORICAL IMPACTS OF COLONIALISM ON INDIGENOUS COMMUNITIES

45 Credit Hours
Prerequisite: Program Admission Requirements
The students will be provided with an overview of the historical impacts of colonial relationships between Indigenous and non-Indigenous peoples in Canada, with a particular focus on psychological and sociological impacts. This overview is essential to understanding the social dynamics within Indigenous communities, and how these dynamics are manifested in various social problems including addiction, sexual abuse and violence.

HU 119
THE HISTORY OF MOVIES

45 Credit Hours
Prerequisite: Program Admission Requirements
Movies have been with us for over a century and each subsequent generation of filmmaker has left their mark on the style, form and structure of film. There is much we can learn from “old films” and in “Cinema Studies” you will explore great films that still resonate with us today. How culture and history are reflected in the movies of their era, and how great films of the past have influenced popular culture, sets the stage for discussing the far-reaching importance of movies. From the invention of the moving image to the beginning of the sound film era is explored.

HU 169
STORYTELLING AS PERSONAL AND CULTURAL NARRATIVE

45 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce students to the concept of storytelling as a universal form of human expression. It will focus on specific cultural examples of storytelling, with an emphasis on oral traditions practiced by Indigenous peoples around the world. It will explore how traditional forms of transmission have changed to reflect changes in society. Through this examination, students will have an opportunity to reflect on storytelling in relation to the practice of history and culture. An examination of how the change throughout time is a key component. Students will also have an opportunity to identify and elaborate on their own personal cultural narrative.

HU 171
INFORMED CITIZENSHIP AND POLITICAL PROCESS

45 Credit Hours
Prerequisite: Program Admission Requirements
This course will consider how citizenship, political perspectives and power relations underlie liberal democratic processes in a Canadian context. Students will explore how power is created, maintained and applied in political environments. The ethics of power in Canadian and Aboriginal contexts will be examined through case studies using examples that highlight formal and informal leadership, internal and external structures, social and economic forces. An analysis of various types of power will be required as students examine the meaning of citizenship, the responsibilities of democracy and consensus decision-making. Students will be encouraged to analyze their own motivation to assume the responsibilities of informed citizenship and how their own politicization contributes to political process.

HU 200
CONTEMPORARY APPLIED ETHICS

45 Credit Hours
Prerequisite: Program Admission Requirements
All civilizations employ ethical systems to guide social behaviour. In this course we will grapple with the ethical dilemmas facing our postmodern worlds of art, business, science, and society. Be prepared to think, discuss and write about contentious moral issues.

HU 208
INDIGENOUS VOICE AND VISION

45 Credit Hours
Prerequisite: Program Admission Requirements
This course will explore the historic and media representations of Indigenous people in Canada and contrast this with representation by Indigenous peoples themselves. It will explore the world views and history that contribute to what stories get told in mainstream culture and how this shapes our views of the world and of those who are not represented. By drawing on Indigenous representations such as art, oral history, literature, movies, music and other forms of representation. It will expose the students to the emerging voices and the untold stories of the Indigenous experience in Canada.
HU 210
THE QUEST FOR RELIGIOUS MEANING
45 Credit Hours
Prerequisite: Program Admission Requirements
Evidence of religions in human society can be dated back to cave paintings over ten thousand years old. Religion has played, and continues to play, an important part in human society and individual development. This course focuses on the major religious questions and issues that have puzzled and inspired thinkers for millennia. This course will address fundamental questions in the light of major religions throughout the world: Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity, Islam, and Indigenous Cultures. The course will also address religious questions in the light of modern scientific inquiry and environmental concerns. In this course, students will reflect on their own personal beliefs and individual roles in the spiritual and social fabric of our world.

HU 250
PSYCHOLOGY OF TERROR
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is intended to be a practical introduction to the psychosocial implications of terror. Today, there is an ever increasing realization of one’s mortality, brought on by events such as school shootings, acts of terrorism and genocide. Emphasis will be placed on understanding human behaviour, anxiety, and fear of death in relation to Terror Management Theory. Students will also be given an opportunity to explore the ramifications of terror via class discussions of contemporary and historical models.

HU 272
POST 9/11, WORLD AT WAR
45 Credit Hours
Prerequisite: Program Admission Requirements
This course examines issues of world security in light of the events of September 11, 2001. Topics include the “War on Terrorism”, the wars in Afghanistan and Iraq, as well as Canada’s role in military conflicts around the world as a peacekeeping nation. The practice of racial profiling in the post 9/11 world is also examined, as well as the prevalence of spying (espionage) and the proliferation of nuclear arms worldwide.

IG 101
RESEARCHING INTERNATIONAL MARKETS
45 Credit Hours
Prerequisite: None
Co-requisite: IG 203
Most businesses know far less about overseas markets than their home markets. This is especially true for business new to international trade, or for those entering new regions of the world. International market research helps reduce the uncertainties and provides management with the information necessary to make strategic market decisions. In this course, the inherent challenges of conducting international market research are examined as are the many resources available to assist companies in identifying and assessing international business opportunities. The importance of trade missions and trade shows as an element of the research process is explored as well as strategies to maximize the gathering of market intelligence from either. Students acquire useful techniques to prepare a market research report which is clear, meaningful and effective.

IG 102
GLOBAL ENTREPRENEURSHIP
45 Credit Hours
Prerequisite: None
Co-requisite: IG 105
Are you an entrepreneur? What do you need to consider when starting a business? Are there specific opportunities and considerations for Canadian businesses that import most products from abroad? How do you determine if your importing business idea will be viable? This course addresses these questions, culminating in the completion of a comprehensive study to assess the commercial feasibility of an import business start-up.

IG 104
GLOBAL MARKETS TODAY
45 Credit Hours
Prerequisite: None
Businesses active in the international marketplace must keep abreast of global current events to ensure the ongoing success of current trade activities and to identify new and emerging opportunities. This course focuses on business, markets, and political news from around the world. Economic and political events are examined in the context of regional world markets and their impact on related trade patterns, opportunities, and business transactions. Multiple perspectives are considered in the development of substantiated, balanced opinions.

IG 105
CUSTOMS AND GLOBAL LOGISTICS
45 Credit Hours
Prerequisite: None
Co-requisite: IG 102
In today’s global environment, companies buy and sell products all over the world. The efficient management of production, inventory, and product movement is key to competitiveness. Students examine logistics, regulations, and industry practices and their roles in effective supply chain management. Customs clearance procedures and trade documentation requirements for various transportation modes are reviewed. Students also investigate a wide range of resources that support supply chain activities and the movement of goods across borders.

IG 200
GLOBAL STRATEGIES/GLOBAL NETWORKS
45 Credit Hours
Prerequisite: None
As more and more companies take advantage of global markets, it is imperative that managers understand the nature and source of global competitiveness. A well developed global strategy, which maximizes a company’s competitive advantage, is critical to international success. In this course, students evaluate the strategies available to businesses pursuing international trade and investment opportunities. The basic model of strategic management is examined with an emphasis on the role of resources and capabilities in formulating global strategies. Students determine the factors relevant to the success and/or failure of global partnerships and examine the strategic value of offshore activities.

IG 201
INTERNATIONAL BUSINESS LAW AND TRADE AGREEMENTS
45 Credit Hours
Prerequisite: None
Expansion into the global marketplace must include an assessment of the legal implications of international business transactions. Students examine the foundation of the international legal environment, identify the scope and significance of international trade laws and review the steps necessary to ensure compliance. The role and impact of international organizations on global transactions are examined as well as the significance and focus of international trade treaties and conventions. Students also evaluate a variety of international dispute resolution mechanisms.
Course Descriptions

IG 202 INTERNATIONAL CONSULTING
45 Credit Hours
Prerequisite: None
The services sector is one of the fastest growing segments in Canada’s economy and one which is increasingly in demand in global markets. Focusing on professional services and management consulting, this course introduces students to the nature of this sector, its operational characteristics, and current trends and opportunities. Students examine the procurement process, contracting procedures and how to prepare a winning proposal. Elements of project management are also studied. Finally, the nature, range and scope of international opportunities, especially within developing and emerging markets, are assessed and students examine best practices for companies to succeed in this highly competitive field.

IG 203 INTERNATIONAL MARKETING MANAGEMENT
45 Credit Hours
Prerequisite: None
Co-requisite: IG 101
The development, implementation and management of an effective international marketing plan are critical to ongoing success in the global marketplace. Students examine international considerations within the marketing mix, including the significance of pricing decisions, the development of an effective international promotional strategy and the role of distribution in international markets. The specifics of the international marketing of consumer and industrial products and the unique challenge of marketing services internationally are examined.

IG 204 INTERNATIONAL NEGOTIATIONS
45 Credit Hours
Prerequisite: None
Stories of failed projects and lost opportunities emphasize the importance of successful negotiations among business people from different countries and cultures. In this course, students learn how to develop a successful international negotiating strategy, assess how to adapt their preferred negotiating style to prevailing cultural norms, and how to assemble an appropriate negotiating team to succeed in different cultural environments. The role of interpreters and others is examined as are strategies to maximize third-party involvement in international negotiations. A major component of this course is the preparation and simulation of an international negotiation.

IG 205 INTERNATIONAL FINANCE AND ACCOUNTING
45 Credit Hours
Prerequisite: None
Importing and exporting involves financial considerations beyond the simple purchase or sale of the goods. There are financial risks associated with doing business internationally which simply do not exist domestically. Students examine these risks, assess their impact and review the instruments available to manage financial risk in the international market. The increase of global alliances and global networks also requires companies to assess and do business with foreign partners. Financial soundness and capability are key selection criteria. This course introduces students to the principles of financial analysis in the context of business partner assessment.

IG 207 WORK PLACEMENT
280 Credit Hours
Prerequisite: Must be in a position to graduate in the current academic year
An eight-week block placement with a private or public sector establishment will provide students with an opportunity to apply their theoretical knowledge and skills to a practical situation. Students are required to report on their experiences and are also evaluated by their employer. Placements may be national or international.

IN 100 INTRODUCTION TO INTERNATIONAL BUSINESS
45 Credit Hours
Prerequisite: Program Admission Requirements
Almost every Canadian business is impacted by globalization. Companies require staff who are aware of the characteristics of global trade and the forces that impact it. In this course, students examine the nature of globalization, the differences that exist among countries and cultures, the elements of cross-border trade and Canada’s trade position. Students also develop an awareness of global current events and their impact on international business decision making and practices.

IT 305 CO-OP WORK PLACEMENT 1
40 Credit Hours
Prerequisite: Successful completion of all core courses in Semesters 1 and 2
Co-requisite: IT 306
This placement will occur over a time period of sixteen employer workweeks. The placement contacts are arranged and coordinated by Career Services and the program coordinator. The student is submitted a list of prospective Co-Op placements, and competes with fellow students for these placements very much so like a job opportunity. The procedures and regulations pertaining to the student placement are according to the College’s “CO-OP HANDBOOK FOR STUDENTS”.

IT 306 TM CO-OP WORK PLACEMENT REVIEW
2 Credit Hours
Prerequisite: Successful completion of all core courses in Semesters 1, 2
Co-requisite: IT 305
The student returns to College upon completion of his/her first Co-Op work term. A nominal 1-week period is allocated for the student to prepare a written report, submit the report for evaluation and critique, and prepare an audio-visual presentation outlining the outcome of the placement. The student then describes to his peers, invited sponsor companies, and college faculty his/her work term by means of a formal presentation. The student presentation outlining the placement shall be by audio-visual means.

IT 345 FIELD INSTRUMENTATION
45 Credit Hours
Prerequisite: EL 254, MA 231, SC 230
Co-requisite: IT 346
This course presents the student with many of the common instrumentation process variables as found in modern industries. The student will examine the various applied science techniques used to measure variables such as pressure, level, density, flow, temperature and analytical measurements.
**IT 445**  
**PROCESS CONTROL APPLICATIONS**  
45 Credit Hours  
Prerequisite: IT 345, IT 346  
Co-requisite: IT 446  
This course covers electronic measurement and control systems. The student will study the various process controllers and instrumentation control techniques used in modern industry. Topics of study are controller design and functions, feedback, cascade control, ratio control, adaptive gain control, feedforward control, and analysis of other control strategies that ensure quality of manufactured products. Instrument, process, and control valve characteristics are also covered.

**IT 446**  
**PRACTICAL INSTRUMENTATION II**  
60 Credit Hours  
Prerequisite: IT 345, IT 346  
Co-requisite: IT 445  
This course with its laboratory experiments provides the student an industrial like environment to investigate instrumentation characteristics, and variable measurement and manipulation of temperature, liquid level, flow rate, and density. The lab experiments are also designed to investigate process dynamics like tank capacity and lag time, as well as, provide a student the opportunity to commission a number of different industrial control strategies using single-loop digital controllers, and/or a modern DCS.

**IX 100**  
**FIELD PLACEMENT**  
80 Credit Hours  
Prerequisite: Successful Completion of all First and Second Semester Subjects  
Students are placed for a two week period in selected industry throughout the Northwestern Ontario region and are expected to satisfactorily perform basic functions under the supervision of industry personnel. Performance evaluations will be conducted by both industry supervisors and college staff.

**IX 110**  
**TECHNIQUES MATHEMATICS**  
30 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will develop in the student the ability to perform calculations involving whole numbers, fractions, percentages, decimals, ratio, proportion and to solve trade-related problems using a scientific calculator. The student will manipulate and transpose algebraic equations or formulae to express them in terms of any desired factor and calculate the value of that remaining factor. The student will use basic geometry to determine length, area and volumes of rectangles, squares, triangles, polygons, cylinders and conical shapes, including the use of Pythagoras’s theorem to solve problems involving right angle triangles. The student will use the sine, cosine and tangent functions to calculate angles and sides of triangles. The student will enter into a computer terminal with accuracy, understanding program limitations and guidelines.

**IX 130**  
**TECHNIQUES INTRODUCTION TO COMPUTERS**  
30 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to familiarize the Techniques student with basic components and use of a microcomputer in a stand-alone or network environment. He/she will gain an introductory understanding of the basic operating system(s), word processors, spread sheets and be able to access a variety of computer programs.

**IX 232**  
**PRE-TRADES MATHEMATICS**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to reinforce the skill set required for study in the trade and pre-apprenticeship programs. After successful completion of this course, the student will be able to solve problems involving whole numbers, common fractions, decimals, percents, ratio and proportion, signed numbers, units of measurement, equations and formulas, graphing, geometry, right angle trigonometry and vectors. There will be an emphasis on trade related applications in all topics of study.

**IX 233**  
**PRE-TRADES SCIENCE**  
30 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to introduce students to the applied sciences used in the trades and pre-apprenticeship programs. After successful completion of this course, the student will be able to solve basic problems involving uniform and accelerated motion, forces, moments or torque, density, pressure and gas laws. All topics of study will require from the students a level of competency for knowledge and formula manipulation.

**LA 135**  
**SPANISH I**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will introduce students to very basic communicative functions, solid grammatical structures, active vocabulary, situational practice necessary to be successful in today’s Spanish-speaking countries and regions. Through the use of a text, workbook, and videos, students will acquire listening, reading, conversational and writing skills at a very basic level. Students will also learn about the customs and language usages of different Hispanic countries and be able to personalize and apply the language to realistic business and business travel situations in the Spanish-speaking world.

**LA 145**  
**SPANISH II**  
45 Credit Hours  
Prerequisite: LA 135  
The learner will continue to communicate in writing and orally in basic Spanish by expanding and personalizing selected contemporary topics from distinctive and changing aspects of daily life to broader social concerns, economic and cultural issues in Hispanic countries. The student will also develop geographic literacy about specific Spanish-speaking countries through case studies. The student will view and listen to scripted and culturally authentic materials to reinforce comprehension and to refine communicative competence in Spanish by simulating realistic situations that may be encountered while conducting business in the Spanish-speaking world.

**LA 700**  
**CONVERSATIONAL MANDARIN I**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
Expand your knowledge of Mandarin and the culture of the Chinese people. In this course you will improve your pronunciation, expand your basic vocabulary, and learn to recognize and write several Chinese characters. At the same time, you will be introduced to more aspects of Chinese culture which will be interwoven into course content. The course will be presented through a blend of instructional methods including lecture, discussion, independent study, student presentations and bi-weekly quizzes.
LA 701
CONVERSATIONAL MANDARIN II
45 Credit Hours
Prerequisite: LA 700
Expand your knowledge of Mandarin and the culture of the Chinese people. In this course you will improve your pronunciation, expand your basic vocabulary, and learn to recognize and write several Chinese characters. At the same time, you will be introduced to more aspects of Chinese culture which will be interwoven into course content. This course will be presented through a blend of instructional methods including lecture, discussion, independent study, student presentations and bi-weekly quizzes.

LS 125
ROLES, PRACTICES & INTERPROFESSIONALISM
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will explore the range of authorities surrounding arrest; search and seizure; and the importance in respecting the application of such authority. Students will also gain a better understanding of the roles and responsibilities of the various professions and appreciate the value in approaching problem-solving using an interprofessional approach.

LS 130
INTRODUCTORY MANAGEMENT
45 Credit Hours
Prerequisite: Program Admission Requirements
Students will gain the knowledge and skills necessary to manage and supervise a security operation. In this course, students will conduct simulated exercises where management theory is applied and communication, problem solving and decision-making skills are tested. Students will also manage Campus Walk, a student service which provides safe walks to anyone on campus. Responsibilities will include hiring, training, employee evaluations and disciplinary practices.

LS 211
CAREER PREPARATION
45 Credit Hours
Prerequisite: Program Admission Requirements
In this course, the student will examine various entry requirements and prerequisites for a multitude of law enforcement and security agencies. Topics covered will include current professional career opportunities and applicable testing for each. Students will have a thorough knowledge of their strengths and weaknesses so that they can focus on the specific requirements of their chosen field of interest.

LS 212
FIELD EXPERIENCE I
45 Credit Hours
Prerequisite: Program Admission Requirements
In this course, the student will gain additional knowledge and skill in a placement related to law enforcement and/or security. The student will integrate the theory taught in the classroom to a practical experience.

LS 312
RISK MANAGEMENT
45 Credit Hours
Prerequisite: Program Admission Requirements
Students will learn the principles surrounding risk management and emergency planning. Through an audit process of a specific workplace, students will learn to identify risk, assess each risk for probability and criticality and develop mitigation strategies to manage risk. Students will also examine the emergency planning process as it relates to the workplace.

LS 313
DEFENSIVE TACTICS I
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will center on the practical application of physical and occupational fitness requirements. Students will be required to apply appropriate fitness skills to continue to increase and/or maintain an overall physical fitness level that will allow the student to work towards meeting or achieving occupational fitness standards, including the Physical Readiness Evaluation for Police/Physical Abilities Requirement Evaluation (PREP/PARE) tests. This course will also examine various methods of self defense as well as the arrestee’s well-being; including excited delirium and positional asphyxia. Use of force theory, law, and other legal issues related to the use of force will be discussed.

LS 314
CUSTOMS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will familiarize the student with the role of a Customs Officer. The topic areas focus on the authorities, powers, and duties as set out in the Customs Act, as well as the applicable regulations associated with the processing and controlling of persons and goods entering and leaving Canada.

LS 316
MENTAL HEALTH & SUBSTANCE ABUSE
45 Credit Hours
Prerequisite: None
Encountering mental illness is becoming more frequent for law enforcement personnel. Recognizing illnesses and specific behaviours is essential in providing appropriate intervention to minimize risk and understand the specific needs of the client.

LS 411
CORRECTIONAL PROCEDURES
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce the student to the procedures carried out within correctional institutions. The course material will include the criteria used to maintain the safety of institutional staff, offenders, and the general public.

LS 412
DEFENSIVE TACTICS II
45 Credit Hours
Prerequisite: LS 313
Based on the skills and knowledge gained in Defensive Tactics I, this course will focus on the practical application of bonafide physical and occupational standards. Students will gain a better understanding of the law as it applies to custody and control of individuals, use of force and search and seizure. Also, while bearing in mind the issues surrounding contagious diseases and officer safety.

LS 419
FIELD EXPERIENCE II
45 Credit Hours
Prerequisite: LS 212
In this course, the student will gain additional knowledge and skill in a placement related to law enforcement and/or security. The student will integrate the theory taught in the classroom to a practical experience.
This experiential course will require students to experience and explore Indigenous cosmology, knowledge and world view as it relates to the land. The influence and importance of land on Indigenous world view as it relates to the land. The influence and importance of land on Indigenous world view will provide a way of understanding the contemporary perspectives on identity and self-determination. In addition, students will be encouraged to examine and locate their own identity and world view in relation to these concepts.

**LV 110 GOVERNMENT LAW AND ABORIGINAL PEOPLES**

45 Credit Hours
Prerequisite: Program admission requirements
Aboriginal peoples have a distinct relationship with the Canadian government as set out in the Constitution. This Constitutional framework also has profound legal implications, along with Native specific legislation that impacts on Aboriginal communities. This course will provide a basic understanding of the legal and political systems in Canada. It will examine how governments and courts operate, and will identify the policy and legal implications of key legislation such as the Indian Act, the Charter of Rights and Freedoms, the Provincial Offences Act and criminal, child welfare and land-resource management legislation.

**LV 202 ABORIGINAL PEOPLE AND SELF GOVERNMENT IN CANADA**

45 Credit Hours
Prerequisite: Program admission requirements
This course is a survey of Aboriginal Law in Canada, with a focus on the present day relationship between Aboriginal Peoples and the Canadian state based on current legal and political status. Students will review and discuss issues of self-determination grounded in best practices in governance, land and social policy as proposed by Aboriginal communities and in the context of emerging case law relating to the recognition of Aboriginal Treaty Rights.

**LV 204 INTRODUCTION TO ADVOCACY**

45 Credit Hours
Prerequisite: Program admission requirements
This course will prepare students for the responsibilities of community based advocacy work. It will examine the history and use of a variety of approaches to advocacy, focusing on Indigenous perspectives on community based action, and on examples of Indigenous led action to address social change, rights and environmental concerns. By examining the techniques and impact of various movements, students will begin to identify and apply the various skills of advocacy to workshop settings. Emphasis will be placed on learning ethical, professional responsibilities of advocacy and representation. Self-evaluation, team building and personal development will be examined as well as techniques and strategies of advocating for positive change on behalf of individuals and communities.
**LV 212 INDIGENOUS LEADERSHIP AND DECISION MAKING**
45 Credit Hours
Prerequisite: Program admission requirements
This course will provide a practical base for exploring issues of leadership and decision-making in Indigenous communities. As well as reviewing traditional leadership and decision-making structures and models, the course will provide an overview of various contemporary models of leadership in First Nations communities. Students will learn the basic skills of effective consensus based on decision-making and will explore the ethical and legal obligations of people who hold decision-making roles in the community.

**LV 310 INDIGENOUS WOMEN: ISSUES AND ADVOCACY**
45 Credit Hours
Prerequisite: Program admission requirements
This course will provide a survey of the history of Indigenous women in Canada, including an examination of legal, political and social issues which impact the lives of Indigenous women and communities. Traditional and contemporary roles of women will be discussed, as well as specific reference to the contributions of Indigenous women to social movements and changes to the law. The world view and perspectives of Indigenous women will be provided to highlight contemporary issues facing women and communities.

**LV 315 ABORIGINAL PEOPLES & SUSTAINABLE DEVELOPMENT IN THE NORTH**
60 Credit Hours
Prerequisite: Program admission requirements
This course examines the issues and related impacts of resource development on Aboriginal communities in Canada with an emphasis on Northwestern Ontario. It will explore how communities are using traditional ecological knowledge to develop sustainable options for use of lands in keeping with traditional values. Case studies and best practices in land use planning and development will provide students with the ability to inform community decision making concerning sustainable options for development.

**LV 340 MEDIATION AND NEGOTIATION IN ABORIGINAL COMMUNITIES**
60 Credit Hours
Prerequisite: Program admission requirements
This course will provide students with an opportunity to explore options in interest based conflict resolution, including mediation and negotiation. It will focus on developing a practical skill base for students in alternative dispute resolution related to issues of relevance to Aboriginal communities. Delivered through experiential learning, students will practice important interpersonal and communication skills which can be applied to a variety of settings. The various applications of mediation and negotiation in Aboriginal communities will be highlighted throughout this course.

**LV 390 COMMUNITY PROJECT**
60 Credit Hours
Prerequisite: Program admission requirements
Practical application of advocacy and public education skills form the basis for this course. Students will work together as a team to envision, plan and carry out an advocacy project of their choosing which involves community organizing, participation, outreach and evaluation. The project will have a connection to social justice or raising public awareness of issues discussed in the program. The project will be community based, and will require partnership with organizations and allies both within the College and in the greater community. Students will have the opportunity to apply their classroom learning in a practical manner.

**LV 407 INTERNSHIP PLACEMENT**
45 Credit Hours
Prerequisite: Program admission requirements
This internship experience will allow the student to begin understand the role and responsibility of a community based advocate and the range of job possibilities which exist in this field. The student should experience how the theory they are learning in the classroom may be practically applied. Students will be expected to adhere to professional and ethical standards of the organization with which they are placed. The hours spent in the agency will allow the student to gain an understanding of their future profession.

**LV 408 RESTORATIVE JUSTICE PRINCIPLES AND PRACTICES**
45 Credit Hours
Prerequisite: Program admission requirements
This course is an opportunity for students to engage in skill based learning with respect to alternative methods of achieving justice for Aboriginal peoples. An evaluation of various models and pilot projects in alternative justice in Aboriginal communities will be emphasized to create an awareness of what is presently being developed and delivered for Aboriginal peoples. Efforts to reform the Euro-Canadian legal system and to create opportunities for Aboriginal-specific models of justice will be addressed from a social justice policy perspective.

**LV 409 INTERNATIONAL HUMAN RIGHTS AND INDIGENOUS PEOPLES**
45 Credit Hours
Prerequisite: Program admission requirements
This course will provide students with an overview of international human rights issues and struggles for self determination of Indigenous peoples around the world. Students will explore the principles of human right and the issues that Indigenous people face in addressing the impacts of colonialism, past and present. They will examine the use of human rights law to advance legal and political arguments for self determination. The role of Indigenous and allied non-governmental organizations in seeking remedies for Indigenous peoples will be discussed throughout the course as student consider positive ways to apply international remedies and action to local situations.

**LV 410 CONTEMPORARY ISSUES AND SOCIAL JUSTICE**
45 Credit Hours
Prerequisite: Program admission requirements
This is an issues based course which will provide the opportunity to discuss current and relevant issues which emerge in relation to Aboriginal social, legal or political topics. Issues may be chosen from an examination of emerging challenges such as poverty law, urban challenges, youth and gangs, leadership, governance, or resource and land management including hunting, fishing and trapping activities. A critique of Euro-Canadian legal and social practices associated with these issues will also be offered. Issues will be addressed within a framework of best practices and alternative models communities may adopt to meet community priorities.
**Course Descriptions**

**LV 411 ADVANCED ADVOCACY SEMINAR**
45 Credit Hours
Prerequisite: Program admission requirements
This seminar course is designed to reinforce skills-based learning with respect to advocacy on behalf of Indigenous peoples in urban, rural and remote communities. Students will be introduced to a full range of alternative advocacy strategies, including the use of art, music, film and other media, and technologies including internet and other digital technologies. This seminar course is linked to the internship component of the program and therefore, along with developing effective advocacy skills, students will also be engaged in a critical analysis of community development principles and issues involved in the representation of communities and individuals. The course will culminate in the development of a proposal for a summer co-op placement for students to work in collaboration with a community partner to advance a particular project or issue.

**LV 412 ADVOCATING FOR CHILDREN AND YOUTH**
45 Credit Hours
Prerequisite: Program admission requirements
This course will examine the legal rights of children and youth in the Euro-Canadian and International legal systems. An examination of the child welfare system with particular emphasis on the experience of Aboriginal children, families and communities affected by the historical development of child welfare policy will be highlighted in this course. A critical review of child welfare legislation, federal youth criminal justice legislation and other specific impacts of current legislation in the lives of Aboriginal families will be developed through the examination of legal and sociological literature in this area. The effects of the justice system on the lives of Aboriginal youth who are in conflict with the law will be discussed with a focus on treatment, division and reconciliation.

**MA 021 PRE-HEALTH COLLEGE MATH I**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course, combined with MA031, is designed to assist students to understand fundamental mathematics and use it effectively. Students will construct mathematical ideas and make connections to previously learned materials. Students will also explore mathematical ideas through applications in the field of Healthcare.

**MA 031 PRE-HEALTH COLLEGE MATH II**
45 Credit Hours
Prerequisite: MA021
This course, combined with MA021, is designed to assist students to understand fundamental mathematics and use it effectively. Students will construct mathematical ideas and make connections to previously learned materials. Students will also explore mathematical ideas through applications in the field of Healthcare. In this course students will study systems of measurements, dimensional analysis, and dosage and solution calculations. Additionally, operation involving basic geometry, algebraic operations and equations and inequalities will be covered.

**MA 100 MATHEMATICS**
75 Credit Hours
Prerequisite: Program Requirements
This introductory technical mathematics course provides a review of arithmetic fundamentals and aims to sharpen students’ basic mathematics skills. Topics covered include: arithmetic fundamentals; powers of ten; scientific notation; systems of measurement with emphasis on SI; basic algebraic operations; algebraic equations and inequalities; word problems; ratio, proportion, and variation; factoring; algebraic fractions; functions and graphing; simultaneous linear equations; basic geometry; properties of triangles, quadrilaterals, and circles; perimeter, area, volume; the Pythagorean theorem; trigonometry including sine and cosine laws; vectors and scalars.

**MA 105 PRE-HEALTH UNIVERSITY MATH I**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course, combined with MA205, is designed to assist students to understand mathematics and use it effectively. MA105 focuses on developing math skills required in many university-based health care studies. Students will construct their own mathematical ideas and make connections to previously learned material. Students will also explore mathematical ideas through application to the real world, with emphasis on the health sciences. In Pre-Health Math I, students will study whole number operations, fractional notation and operations, decimal notation and operations, ratio and proportion, descriptive statistics, probability, systems of measurement, dimensional analysis, basic geometry, right angle trigonometry, sine and cosine law, dilution, titration, solution and dosage calculations.

**MA 115 PRE-TECHNOLOGY MATHEMATICS I**
60 Credit Hours
Prerequisite: Program Admission Requirement.
This course is designed to emphasize the secondary school mathematics required for entrance into post-secondary technology program at a community college level and to further develop mathematical problem solving techniques as applied to the different technical areas. The topics to be covered are numerical computation, introduction to measurement and units, basic geometry, introduction to basic algebra, and problem solving techniques.

**MA 131 (*OL equivalency: OL617) MATHEMATICS I**
60 Credit Hours
Prerequisite: Program Admission Requirements
This introductory technical mathematics course provides a review of arithmetic fundamentals and aims to sharpen students’ basic mathematics skills. Topics covered include: arithmetic fundamentals; powers of ten; scientific notation; systems of measurement with emphasis on SI; basic algebraic operations; algebraic equations and inequalities; word problems; ratio, proportion, and variation; factoring; algebraic fractions; functions and graphing; simultaneous linear equations; basic geometry; properties of triangles, quadrilaterals, and circles; perimeter, area, volume; the Pythagorean theorem; trigonometry including sine and cosine laws.

**MA 132 BUSINESS MATHEMATICS FUNDAMENTALS**
45 Credit Hours
Prerequisite: None
This course is intended to review and develop basic mathematical and algebraic skills as preparation for other college level business courses and for use in future employment. Topics covered include basic numeric skills, integers, exponents, order of operations, percents, rates, ratios, basic and intermediate algebra and equations.
**Course Descriptions**

**MA 135**
**MATHEMATICS I**
45 Credit Hours
Prerequisite: Program Admission Requirement.
The first technical mathematics course introduces the concepts of arithmetic fundamentals and aims to develop the students' basic mathematics skills. Topics covered include: arithmetic fundamentals; numeracy; basic algebraic operations; algebraic equations and inequalities; word problems; ratio and proportion; algebraic fractions; simultaneous linear equations; basic geometry; properties of triangles, quadrilaterals, and circles; perimeter, area, volume; the Pythagorean theorem; trigonometry including sine and cosine laws.

**MA 190**
**MATH FOR EVERYDAY LIFE**
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to provide the student with the basic mathematical knowledge and skills necessary for everyday living. The emphasis will be on practical mathematical applications and will include personal financial tasks, household renovations, math in the kitchen, loans/mortgages, an introduction to statistics, map math, simple household budgets and income tax preparation. The use of computer software to accomplish these tasks will also be explored. While the text supplies a conceptual framework, the assignments allow the students to apply the specific skills learned.

**MA 205**
**PRE-HEALTH UNIVERSITY MATH II**
45 Credit Hours
Prerequisite: MA105
This course, combined with MA 105, provides a review of arithmetic fundamentals and assists students in preparation for entry into university level programs. Students will construct mathematical ideas and make connections between mathematics and the healthcare field. In this course students will learn about algebraic operations, and perform operations involving polynomials, rational expressions and graph quadratic and exponential relations.

**MA 215**
**PRE-TECHNOLOGY MATHEMATICS II**
60 Credit Hours
Prerequisite: MA 115 Pre-Technology Mathematics I
This course is designed to emphasize the second year of mathematics required for entrance into a post-secondary technology program at a community college level and to further develop mathematical problem solving techniques as applied to the different technical areas. The topics to be covered are basic algebra, graphing, geometry and basic trigonometry. Successful completion of this course (minimum C grade) and MA115 (minimum C grade) is an equivalent credit to the first semester technology mathematics course, MA131.

**MA 231**
**MATHEMATICS II**
45 Credit Hours
Prerequisite: MA 131
This mathematics course continues from where its prerequisite, MA131, ends. Much of the content continues to review further fundamental concepts and skills necessary for a wide range of technology programs. Topics covered include: vectors, complex numbers; radian measure; sine and cosine graphs; trigonometric identities and equations; special algebraic products and factoring; equivalent algebraic fractions; quadratic equations; exponents; radicals; and exponential and logarithmic functions.

**MA 235**
**MATHEMATICS II**
45 Credit Hours
Prerequisite: MA 135
The second in the mathematical string. This course will begin with the study of functions of the general form Ax^2 + Bx + C. The course will cover plotting of such equations along with derivatives and integrals of this form. Students will complete calculations of this type both by hand and through the use of spreadsheet software. The course will expand from this base to cover other forms of equations including fractional and negative exponents. The geometry of circles will also be covered including radian measure of angles. The concepts of geometry and integration will be combined to study the concepts of centroid and moment of inertia for built up shapes.

**MA 331**
**MATHEMATICS III**
45 Credit Hours
Prerequisite: MA 231
This intermediate technical mathematics course is designed to introduce the students to the fundamental principles of calculus. Concepts may be learned entirely using an abstract algebraic approach in conjunction with a geometrical approach to interpret, analyze and solve problems using calculus techniques.
(a) Analytical geometry of the conic sections and applications.
(b) Curve sketching and use of equations in rectangular and polar forms.
(c) Binomial expansion.
(d) Limits for functions and relations.
(e) Meaning of the derivative.
(f) Methods of differentiation in graphing and in equations of tangents and normals.
(g) Differentials.
(h) Introductory integration including calculation of areas under curves.

**MA 431** (*OL equivalency: OL894)
**MATHEMATICS IV**
45 Credit Hours
Prerequisite: MA 331
MA 431 focuses on the areas of differential and integral calculus. Topics covered include applications of differentiation and integration as well as methods of differentiation and integration for trigonometric, exponential, and logarithmic functions.

**MA 531**
**MATHEMATICS V**
45 Credit Hours
Prerequisite: MA431
Analytical methods of solution of ordinary differential equations; Laplace transforms for differential equations and systems of differential equations; applications to engineering problems.

**MA 631** (*OL equivalency: OL611)
**MATHEMATICS VI**
45 Credit Hours
Prerequisite: MA 331
An introduction to statistics and probability including descriptive statistics (data summaries, charts, graphs, measures of central tendency, variation and position) and inferential statistics (probability, probability distributions, estimates and sample sizes, hypothesis testing (optional), correlation and regression). Linear algebra concepts related to determinants, matrices and solutions of systems of equations.

**MC 120**
**INTRODUCTION TO COMPUTERS I**
30 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to give the student hands on familiarity with an IBM compatible microcomputer and to illustrate various uses of a computer in everyday activities and the work world. Students will work with a variety of software at an introductory level.
MC 155
MICROSOFT OFFICE 2007 APPLICATIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course builds on the foundation of Marketing Essentials. Students will continue to examine current Canadian material on strategic marketing and research strategies for product and service organizations. Students will determine strategies for developing new products and services that are consistent with evolving marketing needs and apply their knowledge in producing a marketing plan.

MK 317
DESKTOP PUBLISHING
45 Credit Hours
Prerequisite: MC 155
This course focuses on developing effective advertising layouts. The learner will create advertising flyers, newsletters, brochures, letterhead, business cards, envelopes, coupons, invoices, fax covers, order forms, schedules, and web pages using a variety of frames, images, and graphic accents. Macintosh computers will enhance the graphic experience.

MK 318
ADVERTISING, PROMOTION & MEDIA
45 Credit Hours
Prerequisite: MK 213
Co-requisite: MK 317
Marketers require a solid foundation in advertising, sales promotion, media techniques and applications. In this course, students will develop their skills as they apply fundamental principles and practices of marketing communications in a variety of industry, product and service situations.

MK 404
SUPERVISION
45 Credit Hours
Prerequisite: Program Admission Requirements
The student registered in this introductory course in SUPERVISION will examine basic management functions such as planning, organizing, staffing, directing and controlling. The student will also examine topics fundamental to effective management skills including communications, motivation, workplace diversity, management of staffing, and performance evaluation.

MK 409
STRATEGIC MARKETING MANAGEMENT
45 Credit Hours
Prerequisite: MK 213
The marketing student of today is required to develop a national and international understanding of business. Studying domestic and global patterns, students will learn to compare and contrast marketing applications from a managerial perspective. A collaborative group approach will be employed in the design of a marketing strategy.

MK 417
PROFESSIONAL DEVELOPMENT SKILLS
45 Credit Hours
Prerequisite: MK 213
This course will focus on the development of leadership, motivation, personal habits and confidence necessary for a professional business attitude. The student will acquire various communication skills that will assist them in the presentation of ideas, products and oneself in business activities.

MK 418
PROFESSIONAL SELLING
45 Credit Hours
Prerequisite: MK 213
This course will explore the world of building relationships in the sales field. Students will examine the steps in the preparation, presentation negotiation and the follow up of a professional sale. Students will explore and analyze method of managing relationships including adaptation of presentations and ethical and social responsibility. Students will apply their skills by delivering a sales presentation.

MK 500
INTEGRATED MARKETING COMMUNICATIONS
45 Credit Hours
Prerequisite: MK 213
Integrated marketing begins with the development of a master plan. As the new era in the fields of advertising, promotions and marketing communications evolve, company leaders insist on and expect tangible results and accountability from their marketing staff. Students will design a case study based on a business scenario.

MK 501
PRE-PLACEMENT, CAREER READINESS
45 Credit Hours
Prerequisite: MK 213
This course will ready students in their final year of college for program-related work experience and employment. Students will create a “toolbox” of skills that enables them to adapt to the challenges of the evolving workplace. The application of best practice strategies and techniques will assist students to attain their career aspirations.

MK 503
CONSUMER BEHAVIOUR
45 Credit Hours
Prerequisite: MK 213
This introduction to consumer behaviour shows how the behavioural sciences help answer questions about why people choose one product or brand over another, how they make their choices, and how organizations use this knowledge to provide value to consumers. In addition, actual applications of consumer behaviour concepts to marketing situations are designed and executed by the students.
MK 600
WORK PLACEMENT
540 Credit Hours
Prerequisite: Successful completion of the previous five semesters
Students are placed for a block period of four months in selected businesses based on the career interest of each individual. Here the students have an opportunity to observe and apply classroom skills in real business situations. Students are required to complete full reports of their observations and activities. Employers also complete full reports evaluating the performance of the student.

ML 101
LABORATORY SCIENCES AND TECHNIQUES
90 Credit Hours
Prerequisite: Program Admission Requirements
This lecture and laboratory course will emphasize proper and safe techniques when using a variety of laboratory equipment. Students will also become familiar with the more common mathematical principles and practices associated with a routine laboratory.

ML 103
SPECIMEN PROCUREMENT AND HANDLING
90 Credit Hours
Prerequisite: Program Admission Requirements
This lecture and laboratory course will emphasize proper techniques for the collection of blood and other laboratory specimens, including performing ECGs. Students will perform various blood collection procedures as well as perform ECG testing. Students will be introduced to medical terminology as it relates to a medical laboratory setting. Students will learn the laws, regulations, and professional associations governing Medical Laboratory Technology in Ontario.

ML 210
CLINICAL CHEMISTRY
45 Credit Hours
Prerequisite: Successful completion of the first semester courses.
Co-requisite: ML 230, ML 250, ML 270, ML 280, ML 290
The student will demonstrate proficiency in performing routine Clinical Chemistry tests. They will understand the specimen requirements and storage instructions. They will learn how to set up/load automated and manual instruments. They will gain an understanding of the normal ranges for all routine clinical chemistry tests and recognizing variant results.

ML 230
HEMATOLOGY AND IMMUNOHEMATOLOGY
45 Credit Hours
Prerequisite: Successful completion of the first semester courses.
Co-requisite: ML 210, ML 250, ML 270, ML 280, ML 290
Hematology is the study of blood and its cellular elements. Immunohematology is the study of antigens and antibodies as it relates to blood typing and cross match testing. The lectures will provide the basic theoretical principles on which the practice of Hematology and Immunohematology are based.

ML 250
MICROBIOLOGY
45 Credit Hours
Prerequisite: Successful completion of the first semester courses.
Co-requisite: ML 210, ML 230, ML 270, ML 280, ML 290
This is a clinical microbiology course designed for Medical Laboratory Assistants. The student is introduced to various types of microorganisms and common staining and culture techniques used to detect and isolate them in clinical specimens. The preparation and maintenance of culture mediol and sterilization/disinfection methods in the laboratory will be studied.

ML 270
HISTOTECHNOLOGY AND CYTOLOGY
45 Credit Hours
Prerequisite: Successful completion of the first semester courses.
Co-requisite: ML 210, ML 230, ML 250, ML 280, ML 290
This is a Histotechnology course designed for Laboratory Assistants/Technicians. The student will demonstrate an understanding of the theory behind routine anatomical pathology procedures such as routine fixation, decalcification, processing, embedding, cutting and staining of histological/cytological samples.

ML 280
MLA SKILLS INTEGRATION LAB
90 Credit Hours
Prerequisite: Successful completion of first semester courses.
Co-requisite: ML 210, ML 230, ML 250, ML 270, ML 290
This course is designed to meet the practical requirement for Clinical Chemistry, Hematology and Immunohematology, Microbiology, and Histotechnology and Cytology as described in the current MLA/T competency guidelines for the Ontario Society of Medical Technologists (OSMT) and the Canadian Society of Medical Laboratory Science (CSMLS).
MM 114
2D DESIGN
45 Credit Hours
Prerequisite: Program Admission
Requirements
This course will introduce students to the theoretical fundamentals and applications of computer graphics. Topics will include the basics of design and typography, common terminology, hardware and software, problem solving, design concepts and the planning process. Students will harness this knowledge to create eye catching advertising for web and print, cartoon characters, and menus for DVD and CD production using Adobe Illustrator.

MM 118
CREATIVE PROGRAMMING I
45 Credit Hours
Prerequisite: Program Admission
Requirements
Students will be introduced to the essentials of programming in JavaScript and XML. From dynamic, script-driven web pages using the latest XHTML web standards, to stand alone applications, this course will provide a solid foundation of programming skills that will prepare students for the most common computer languages used today. Students will apply these skills to the creation of dynamic graphic interfaces with a focus on function and usability. Students will gain an appreciation for the value and relevance of these technologies in the ever evolving digital landscape of the Multimedia industry.

MM 124
3D DESIGN I
45 Credit Hours
Prerequisite: Program Admission
Requirements
As an introduction to the fundamentals 3D Computer Animation, students explore the 3D design process as a whole, using Autodesk's 3D Studio Max. The understanding of “shape” and its relationship to light, along with a deep analysis of rendering techniques will be stressed in this course.

MM 125
WEBSITE DESIGN AND DEVELOPMENT
45 Credit Hours
Prerequisite: Program Admission
Requirements
The students will create a website that is graphically appealing and follows sound design practice and standards. Despite being an introductory course, some student sites will look as good as any seen on the Internet today. This course will focus on the overall production processes surrounding web site design with emphasis on design elements and usability. Hands-on web design exercises and a group project will be involved that use xHTML and CSS. This course will lay the foundation for more advanced web courses in the program.

MM 126
MULTIMEDIA AND COMPUTER FUNDAMENTALS
45 Credit Hours
Prerequisite: Program Admission
Requirements
By means of computer-assisted instruction, students will review and apply basic computer skills. The student will receive hands-on experience with managing files, mastering optical media, Intranet, scanning, printing, creating simple databases and using the World Wide Web in both the Windows and Macintosh environments.

MM 202
VIDEO PRODUCTION
45 Credit Hours
Prerequisite: MM 103
MM 202 introduces fundamental single camera production concepts to the Multimedia Production students. This course teaches the theory and practices relative to professional video standards and introduces practical hands-on applications. Non-linear editing will be introduced using Final Cut Express. As a final project, the students create a complete video production of their design, stepping through the video process including storyboarding, scripting, shooting, audio mixing, editing and mastering.

MM 203
DIGITAL PHOTOGRAPHY AND IMAGING II
45 Credit Hours
Prerequisite: MM 103
In this course, the student will learn to use the camera as a visualization tool. Students will learn to observe more accurately, to develop imagination, and to express a theme or subject more effectively with photography. Through a series of exercises, students will gain an understanding of the expressive potential of photography, the potential and limits of their own vision, how meaning is derived from visual imagery, how the images can influence the viewer’s perception of reality, and how visual processes can be sharpened. Students will learn to practice the techniques used, to manipulate the images in Adobe Photoshop to achieve the best possible quality for print and screen.

MM 218
CREATIVE PROGRAMMING II
45 Credit Hours
Prerequisite: MM 118
Students will be introduced to scripting and programming languages that are commonly used in media development and web page presentations. Included in this course of studies is an exposure to differing platforms upon which media presentations are developed and delivered. In this course, students will develop basic skills needed to locate, modify and employ programs/scripts that support user interfaces and data collection processes. Delivery of this program of studies will include lectures, demonstrations, lab assignments and readings. The studies will be supplemented with the reviewing of Internet sites relevant to program content.

MM 224
3D DESIGN II
45 Credit Hours
Prerequisite: MM 124
This course is designed to further the student’s exposure to the theoretical fundamentals and applications of 3D computer animation and modeling using Autodesk’s 3D Studio Max. In this semester, students will investigate box modeling techniques, advanced UVW and normal mapping and High Dynamic Range rendering.

MM 226
NON-LINEAR EDITING
45 Credit Hours
Prerequisite: MM 103
This course focuses on issues associated with industry standard, nonlinear, video editing software. Content begins with planning and assembly of media elements for video projects, and includes the basics of nonlinear, video editing, as well as the addition of audio and post production editing effects such as transitions, animation and titling. Students will demonstrate hands-on digital editing skills and produce video sequences to be deployed on the Internet and CD-ROM.
MM 227  
SOUND PRODUCTION  
45 Credit Hours  
Prerequisite: None  
This course will engage the student to design, discuss and compose original auditory compositions for applications, animations and video using cutting edge digital audio technology. The course will challenge the listener to better appreciate major movements in music, the quality of sound and the appropriate use of audio in computer applications and motion graphics. Sound design, composition, management, output and compression will be topics for the semester.

MM 305  
ELECTRONIC PUBLISHING  
45 Credit Hours  
Prerequisite: MM 114  
Students are introduced to techniques that will allow them to create exciting publications using established desktop publishing programs. Through a variety of projects they will practice design and layout fundamentals, develop an awareness of typographical considerations, current design trends, and understand options for printing anything from business cards to billboards. An introduction to the process of designing and planning will teach students how to effectively incorporate Illustrator and Photoshop to produce professional print publications.

MM 308  
MOTION GRAPHICS  
45 Credit Hours  
Prerequisite: MM 202  
This course challenges students to analyze, deconstruct and create motion graphics so they can utilize motion as a powerful visual aid. Core concepts include timeline editing, rotoscoping, compositing, text effects, visual effects, output and compression. Applications used will include Macromedia Flash and Adobe After Effects.

MM 309  
FLASH ACTION-SCRIPTING  
45 Credit Hours  
Prerequisite: MM 218  
This course will introduce students to the scripting language ActionScript and some of the intermediate and advanced features of Adobe Flash. Basic “building blocks” of ActionScript will be introduced followed by an exploration of the more complex nature of object oriented programming. With a focus on interactivity, learners will be introduced to programming strategies associated with application design and development. Assignments will be prepared for delivery on the WEB and CD-ROM.

MM 324  
3D ANIMATION I  
45 Credit Hours  
Prerequisite: MM 224  
Building upon the foundation of skills acquired in previous semesters, the student will be exposed to advanced 3D design techniques and theories. In this course, students will explore character modeling and rigging.

MM 325  
DESIGNING DYNAMIC WEB APPLICATIONS  
45 Credit Hours  
Prerequisite: MM 218  
Building on the foundation skills mastered in the first year, this course will expand student’s knowledge to what is called Web Applications. All the programming for Web Applications happens on a server, not on the user’s desktop. Web Applications is where anything from websites, to full blown applications will end up in the future. Students will learn some basic database concepts and server-side languages to enable them to create simple or modify complex Web Applications. The emphasis will be on Open Source Software. Final project is a full-blown content management system. Students will choose from these features for their project: Podcasting, music, photo galleries, blogs and wikis. Open Source makes all this within the students’ reach where it was once impossible to accomplish amazing things in such a short time.

MM 400  
FREELANCING, BUSINESS MANAGEMENT AND LAW  
45 Credit Hours  
Prerequisite: MM 325  
National statistics are clear; about 10% - 25% of individuals working in Multimedia are freelancers (contractors) - some through choice, others as a temporary arrangement. Students will discover what it is like to be a freelancer, what makes a freelancer successful and explore the pros and cons. Even students with a future in a non-freelance situation will greatly benefit from the fundamentals of running a small business. One third of the course will be devoted to copyright, contract and other legal issues facing multimedia professionals each day.

MM 462  
EXPLORING OPEN SOURCE APPLICATIONS  
45 Credit Hours  
Prerequisite: MM 325  
Open Source Code is growing in importance each year. This course will explore how to make the best use of Open Source applications. An emphasis will be on web applications, but also sound and graphical applications will be explored. Some applications will be modified; others just used in the same manner students use traditional applications. Ways of profiting as a freelancer will be discussed and case studies will be used. Open Source applications will change how we look at software.

MM 463  
MAJOR PROJECT  
45 Credit Hours  
Prerequisite: MM 114, MM 227, MM 325  
This course is designed to build strong time management, team building and production skills. Group work is stressed heavily in this course as students work towards real world experience in the classroom. Projects may include programming, video and animation production, graphic design and project management.
Course Descriptions

MM 469
CLIENT PROJECT I
45 Credit Hours
Prerequisite: MM 325
This course focuses on the implementation of a real-world project. Here the learner applies their knowledge to create a close working relationship with an internal client to plan and implement a multiphase project. Skills developed in this course include project development and management, accountability tracking, group collaboration and client communication. A major outcome of this course will be a portfolio ready project demonstrating a range of multimedia skills acquired throughout the Multimedia Production program.

MM 500
PORTFOLIO PRODUCTION
45 Credit Hours
Prerequisite: MM 463
Students will develop their portfolios to a professional level in preparation for field placement interviews. Students will also prepare resumes, develop job interview skills, and explore the available market for potential field placement experience appropriate to their aspirations.

MM 504
MARKETING NEW MEDIA
45 Credit Hours
Prerequisite: MM 400
This course will explore marketing with new forms of electronic media. Students will develop creative marketing strategies that are appropriate for the multimedia world.

MM 524
3D ANIMATION – MAJOR PROJECT
45 Credit Hours
Prerequisite: MM 424
Using the skills acquired from previous semesters, students will participate in creating a 3D animated production. Through group work, students will develop a story from a premise, plan the production pipeline and assume different roles in the creative process. This course relies on the full participation of each team member to help facilitate the completion of a production.

MM 525
DATA-DRIVEN WEBSITES AND APPLICATIONS
45 Credit Hours
Prerequisite: MM 325
Students will create web sites that access databases in order to create a dynamic website. Such sites allow non-technical users to update the content of the site. Projects created in this course will fit well into the students’ web portfolio. Techniques mastered here will allow graduates to build commercial sites for both large and small clients. Great attention will be paid to details, in both the coding of the site and of its graphic appeal.

MM 569
CLIENT PROJECT II
45 Credit Hours
Prerequisite: MM 325
This course focuses on the implementation of a real-world project. Here the learner applies their knowledge to create a close working relationship with an external client to plan and implement a multiphase project. Skills developed in this course include project development and management, accountability tracking, group collaboration and client communication. A major outcome of this course will be a portfolio ready project demonstrating a range of multimedia skills acquired throughout the Multimedia Production program.

MM 600
SUPERVISED PLACEMENT
480 Credit Hours
Prerequisite: Program Admission
Requirements
Students who are eligible for graduation and meet all departmental requirements will gain practical knowledge of a specific job in a multimedia or related industry by working (unpaid) on the job for 480 hours or 15 weeks at 32 hours per week.

MN 110
SURVEYING I
60 Credit Hours
Prerequisite: Program Admission
Requirements
Students will learn the use and care of surveying equipment and instruments; theory and measurement of horizontal distances; theory and practice of differential leveling using various types of levels; theory and measurement of horizontal and vertical angles using different styles of theodolites; format for recording of field notes and related calculations; errors and corrections in surveying; determining azimuths, bearings, latitudes, departures and coordinates, introduction to traverses.

MN 120
GEOLOGY I
60 Credit Hours
Prerequisite: Program Admission
Requirements
This course provides an introduction to mineralogy; systems and cycles, geologic time, Earth structure, plate tectonics, weathering and erosion, soils and rock types. Approximately half the course will be devoted to lab work for the purpose of identification of minerals.

MN 130
INTRODUCTION TO MINING
60 Credit Hours
Prerequisite: Program Admission
Requirements
This course comprises a discussion and description of major operations in mining and the various techniques used in these operations. Also covered is an examination of the development work that prepares the ore for mining. Learners also study underground processes and surface methods, including placer mining, open pit, and stripping. Students will demonstrate that they understand basic mining industry concepts and terminology. Students will also be able to solve simple grade control problems plus determine productivity rates and three dimensional relations. Delivery of this course is divided into lecture (theory) sessions and lab (problem solving and drawing) sessions.

MN 210
SURVEYING II
75 Credit Hours
Prerequisite: MN 110
This course covers locating and installing survey stations; traverse and coordinate calculations; determination of irregular areas; field determination and plotting of profiles and cross-sections; cross-sectional area and quantity determination; alignment techniques; introduction to electronic distance measurements; the use of CAD Software for various survey projects.

MN 220
GEOLOGY II
60 Credit Hours
Prerequisite: MN 110
This course develops the students understanding of geologic time, structural geology, topographic and geologic maps, seismology, the mining sequence and ore deposits. Lab exercises relating to these topics plus identification of igneous, sedimentary and metamorphic rocks are included.

MN 230
MINING METHODS
60 Credit Hours
Prerequisite: MN 130
This course is a study of the application of the basic surface and underground mining methods. An emphasis upon modifications to and techniques used within various methods are reviewed. Underground mining includes hard rock metalliferous mining methods for different types of ore deposits. Open-pit and open-cast mining methods will be reviewed. An introduction to coal mining and novel methods for both underground and surface operations will be made.
Course Descriptions

MT 141
DRAFTING & BLUEPRINT READING
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to provide students with basic fundamentals of drafting and related numerical applications, line work, scales, orthographic projections, dimensioning as well as to understand and read blueprints.

MT 143
INDUSTRIAL MAINTENANCE I
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will demonstrate safe and proper use of hand and power tools such as drill presses and grinding machines. The learner will be exposed to safe hoisting and rigging, layout methods, fasteners, the evolution of tools (with an emphasis to Northern Ontario), rope use and care. Trade calculations and relevant shop projects will be included.

MT 145
METROLOGY/MACHINE SHOP
45 Credit Hours
Prerequisite: Program Admission Requirements
Machine Shop safety and procedures will be applied, as well as precision measurements and accurate trade calculations, layout tools and techniques, safe and proper use of lathes and milling machines, vertical and horizontal band saws.

MT 147
WELDING & FABRICATION I
60 Credit Hours
Prerequisite: Program Admission Requirements
Students are introduced to safe soldering methods (hard and soft) solders, safe welding procedures in both oxy-acetylene and manual arc welding, application and selection of electrodes, types and applications of structural steels, pipes and tubing, various weld layouts and fastening, techniques used in flat and horizontal welding for both manual arc welding and gas metal arc welding.

MT 149
POWER TRANSMISSION I
75 Credit Hours
Prerequisite: Program Admission Requirements
This course allows the student to understand basic installation blueprints for machinery layout, leveling, and coupling alignment. Students will be able to apply mathematical concepts relative to bearings, lubrication and seals.

MT 242
DRAFTING & AUTO CAD
45 Credit Hours
Prerequisite: MT 141
This course introduces students to the techniques involved in producing drawings by computer. The students gain basic knowledge in selecting menu items to create and edit a drawing and set the parameters necessary to produce the desired plotted output.

MT 244
MACHINE SHOP II
60 Credit Hours
Prerequisite: MT 145
This course covers machining techniques and machine tool set-ups and sequencing machine operations. The selection of work holding devices and set-ups are reviewed, machining of non-ferrous metals, alloy and hardened steels are applied. Trade calculations and shop projects will be included.

MT 246
WELDING & FABRICATION II
45 Credit Hours
Prerequisite: MT 147
The student is introduced to safe welding procedures in manual arc welding methods, application and selection of electrodes for position welding, identification of ferrous and non-ferrous metals, steel numbering system, types and uses of sheet and structural steels, uses of various fastening methods used in steel and sheet metal fabrication, techniques in vertical position. Students will also be introduced to gas metal arc welding procedures in a fabrication set-up.

MT 248
POWER TRANSMISSION II
45 Credit Hours
Prerequisite: MT 149
This course is a system approach to industrial drive components that includes sprockets, clutches, pump assembly and disassembly, reduction units and brakes. In addition, the students will be introduced to conventional shaft alignments and optical alignments, trouble shoot equipment and diagnose problems.

MT 252
INTRODUCTION TO HYDRAULICS
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will be able to understand the basic characteristics of fluids and the laws regarding pressure, force, fluid/air flow, hydrostatics and hydrodynamics; hydraulic and pneumatic components, reservoirs, pumps, filters, control valves, accumulators, valve symbols, circuit interpretation, trouble shooting, installation and maintenance.

MT 254
ELECTRICAL CIRCUITS I
30 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce the students to atomic theory, voltage, amperage, resistance, D.C. generation, electrical circuits, A.C. generation, D.C. and A.C. single and three phase motors, electrical control circuits, electrical hazards and safety, protective devices, insulating and grounding, practical use of measuring equipment: voltmeter, ohmmeter, ammeter and fuse testers.

MT 300
INDUSTRIAL FABRICATION FIELD PLACEMENT
45 Credit Hours
Prerequisite: Satisfactory completion of program courses.
Students will be placed in the industry in the second semester for a work placement. This will require an availability of external partnerships. The objective is to have our students experience all facets of industry (mining, paper industry, bulk handling and manufacturing). Placements will be assessed by a report and a verbal presentation of the learner’s field experience to instructors and classmates.

NC 101
ABORIGINAL LANGUAGES I
45 Credit Hours
Prerequisite: Program Admissions Requirements
This course will provide the student with a general introduction to the development of oral language and the syllabic alphabet in a First Nation language. There will be the opportunity to practice vocabulary related to conversational topics. Intrinsic in this course is the relationship of language to cultural expression and revitalization.
NC 102
INTRODUCTION TO HUMAN SERVICES
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce the student to the broad range of opportunities in the human services field. Basic professional counseling skills will be taught preparing the student to enter into a professional helping role.

NC 103
CHILD WELFARE I
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will look at the major historical, ideological, legal and professional themes that inform child welfare policy. Issues including current legislation, history of child welfare, the provincial government’s transformation agenda, funding and the issues and impacts of the disproportionate number of Aboriginal children involved in the child welfare system will be examined.

NC 201
ABORIGINAL LANGUAGES II
45 Credit Hours
Prerequisite: NC101
This course builds on the vocabulary taught in NC101 and provides opportunity for fluency development in a First Nation language through listening, speaking, reading and writing. This student will develop practical conversational skills.

NC 202
HUMAN SERVICES II
45 Credit Hours
Prerequisite: NC102
This course will examine the various levels and settings of social work best practices including individual, family and First Nation community systems, as well as, informal helping networks. Aboriginal values, beliefs and approaches to helping inform this course. The student will acquire a working knowledge of roles, functions and jurisdiction of relevant agencies, organizations and service providers at the local and provincial levels.

NC 203
ESTABLISHING PARTNERSHIPS WITH FIRST NATIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide students with the necessary skills and knowledge to assist in developing, implementing and collaborating with First Nation communities in appropriate protocols for the delivery of services to children, youth and families. Principles and techniques of community facilitation, presentation skills and alternative dispute resolution skill will be introduced as tools for bringing about social change.

NC 205
Field Placement I
210 Credit Hours
Prerequisite: Successful completion of semester 1
This course is the first field experience which enables the student to begin to integrate acquired theory into the work place. The student develops beginning competence in direct practice situations by working in an agency delivering child welfare services 2 days per week for the full semester. The student is guided and evaluated in this learning experience by an agency supervisor and supported by appropriate college faculty.

NC 303
ADVANCED SEMINAR
45 Credit Hours
Prerequisite: Successful completion of semesters 1 and 2
This course is a special topic course that will facilitate the development of increased knowledge and skill in the delivery of culturally responsive and relevant Aboriginal child welfare services. The course will consist of presentations and discussions on teachings by guests knowledgeable in traditional perspectives on families, children and communities; discussions around living a balanced and harmonious lifestyle, both personally and professionally; case management skills; and advocacy skills. Other topics of interest can be included.

NC 305
CHILD WELFARE II
45 Credit Hours
Prerequisite: Successful completion of semester 1 and 2
This course will explore the mandatory requirements for delivering Aboriginal child welfare in Ontario, including specific Aboriginal provisions contained in appropriate legislation. Students will examine the challenges to delivering provincially mandated child welfare services in a culturally sensitive and relevant manner and develop strategies to address these challenges. There will be an opportunity to examine the service delivery models of both mainstream and Aboriginal agencies.

NC 306
CONTEMPORARY ABORIGINAL SOCIETY
45 Credit Hours
Prerequisite: Successful completion of semesters 1 and 2
This course will provide the student with an opportunity to examine the contemporary situation and lifestyles of Aboriginal peoples in Canada and more specifically, Northwestern Ontario. The student will survey a number of topics such as political issues (Aboriginal rights, self government, community governance structures); social and cultural issues (cultural identity, cultural diversity, spirituality, family violence, addictions, poverty, and suicide) and visions for the future.

NC 307
CULTURAL COMPETENCY IN ABORIGINAL CHILD WELFARE
45 Credit Hours
Prerequisite: Successful completion of semesters 1 and 2
This course will explore the concept of cultural competence which has gained increasing importance in the field of Aboriginal child welfare services. The components of delivering culturally competent services, challenges to implementation and impacts of cultural inclusion in incompatibility of mainstream child welfare models will be examined. The students will be provided an opportunity to reflect on their own personal cultural backgrounds and possible related biases and implications.
NC 402 FIELD PLACEMENT SEMINAR
45 Credit Hours
Prerequisite: Successful completion of semesters 1 and 2
Co-requisite: NC 403
This course will assist the student to further integrate theory and practice related to their field placement. Specific issues and concerns, on both a personal and professional level will be explored and discussed.

NC 403 FIELD PLACEMENT II
420 Credit Hours
Prerequisite: Successful completion of semesters 1, 2 and 3
Co-requisite: NC 402
This course is the second field experience for the student giving further opportunity to integrate knowledge, values and skills and demonstrate increases clinical competency in a practical child welfare work related environment. The student will work within an agency 4 days per week for the full semester under the guidance of an agency supervisor and appropriate support from college faculty.

NC 550 CO-OP PLACEMENT
525 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3 and 4.
This optional course enables a student to obtain 4 months of valuable work experience designed to integrate related practical experience with academic studies. Evaluation will be based on learning goals, identified jointly by the student and agency supervisor with approval of Program Coordinator established at the beginning of the co-op placement. Co-op placements are negotiated and coordinated by the Placement Officer and the Program Coordinator. The procedures and regulations pertaining to Co-op placement will be in accordance with the College’s “Co-op Handbook for Students”. The student is responsible for paying a standard Co-op work placement fee in the semester prior to the work placement. The Co-op work placement may be one of the most important opportunities a student has for securing employment and enhancing practical skills.

NR 100 NATURAL RESOURCE MEASUREMENTS
52 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: NR 180
Students will examine the characteristics of the growth and yield of forest stands and will gain a thorough understanding of forest measurement sampling techniques and navigation/orientation. Sampling design, sampling intensity, data collection, compilation, and analysis of data are emphasized.

NR 110 TREE & SHRUB IDENTIFICATION
52 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: NR 180
Students learn first about scientific classification and how it applies to Forest Trees. The organization of tree species in Canada by morphology (external appearance) is emphasized in both Lectures and Laboratory sessions. The use of dichotomous keys for identification of unknown samples is practiced. In Lectures, an overview of the Forest Regions in Canada is included. Silvics (“how trees grow”) and some basic ecology of the major Boreal and Great Lakes – St. Lawence Forest Regions follow. Traditional uses of local forest plants and trees are highlighted. Laboratory sessions use live, frozen and pressed tree foliage, twigs and fruit to help students learn to identify and name (common and scientific names) the most important species of trees in Canada, as well as local woody shrubs. An herbarium-standard plant collection, started in Field School, is a major component of out-of-class work. It will include samples of Forest Ecosystem Classification species.

NR 130 SOILS & GEOMORPHOLOGY
52 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: NR 180
The student will gain the skills to identify fundamental characteristics of forest soils and sites and to classify forest ecosystems and ecotones using standard terminologies. The student will then discover how soils and site parameters affect the structure and function of forest ecosystems and how they influence forest operations including road construction, forest harvesting and silviculture. Other topics include hydrology, landform origin, description and identification.

NR 180 FALL FIELD SCHOOL
88 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: NR 100, NR 110
Students will participate in a two-week field school designed to introduce them to the science of Forestry. Field school subjects will include: Tree and shrub and plant identification, forest measurements and orienteering.

NR 213 GEOGRAPHICAL INFORMATION SYSTEMS I
60 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide students with an introduction to the use of Geographic Information Systems (GIS) and build basic skills required by the entry level Forestry Technician. Topics explored will include the fundamentals of creating and managing information in a digital environment, performing common queries and analysis, and presenting information in the format of maps and reports in a professional manner. Additional topics covered in the course will include the use of Global Positioning Systems (GPS) and an introduction to the science of Remote Sensing.

NR 215 PLANT BIOLOGY
60 Credit Hours
Prerequisite: Program Admission Requirements
Basic biology of plants from the cellular level to a whole forest. Students will gain an elementary understanding of metabolic process in plants such as photosynthesis and respiration. Plant diversity, and the life cycles of conifers (gymnosperms) and hardwoods (angiosperms), will be explored. The structure and function of non-woody and woody plant tissues and organs will be examined along with plant growth and genetics.
NR 216  NOMINTRODUCTORY ECOLOGY  
60 Credit Hours  
Prerequisite: Program Admission  
Requirements  
Co-requisite: NR 215  
This course will introduce the learner to the fundamental concepts of statistics used in natural resource applications. Emphasis will be placed on descriptive statistics, basic probability and an introduction to inferential statistics. Actual environmental data in tables and charts, perform basic summary statistics, construct control charts, perform correlation and linear regressions and study t-tests.

OA 125 (*OL equivalency: OL054)  
WORD PROCESSING APPLICATIONS  
60 Credit Hours  
Prerequisite: Program Admission  
Requirements  
In this course students use basic to intermediate MS-Word functions to create, edit and customize a range of document types and styles of varying complexity. Topics include formatting text, paragraphs and pages, using shapes and graphics creating tables and charts. The emphasis will be on proofreading and producing professional-looking, error-free documents.

OA 127  (*OL equivalency: OL704)  
PRESENTATIONS AND SPREADSHEETS  
60 Credit Hours  
Prerequisite: Program Admission  
Requirements  
In this course students will use MS-PowerPoint to create and run animated slide show presentations. Students will also use MS-Excel to create, edit and format worksheets, create charts to present data in a visual format, build basic mathematical formulas, sort, filter and analyze worksheet data.

OA 128  (*OL equivalency: OL511)  
BUSINESS MATH  
45 Credit Hours  
Prerequisite: None  
In this course students will review numerical and computational skills which are applied to business concepts and procedures in buying and selling, bank statements and reconciliations and calculating simple interest. Emphasis will be placed on critical thinking to solve problems.

OA 222  (*OL equivalency: OL120)  
OFFICE PROCEDURES II  
45 Credit Hours  
Prerequisite: OA 122  
In this course students learn current office procedures necessary to perform administrative support functions such as handling office mail and banking transactions, scheduling visitors and appointments, filing office records, demonstrating effective customer service and arranging for business meetings and travel. Students also explore career planning options and prepare a letter of application and a resume for field placement.

OA 225  (*OL equivalency: OL804)  
ADVANCED WORD PROCESSING  
60 Credit Hours  
Prerequisite: OA 125  
In this course students use advanced functions of MS-Word to create and format complex business documents. Topics include mail merge, table of contents, indexes and forms. The emphasis will continue to be on proofreading and producing professional-looking, error-free documents.

OA 228  (*OL equivalency: OL811)  
DESKTOP PUBLISHING AND WEB DESIGN  
45 Credit Hours  
Prerequisite: None  
In this course students apply layout and design principles for desktop publishing using MS-Publisher to create a variety of business documents such as brochures, newsletters, business cards and flyers. Students also learn and apply basic web design principles to create web pages.

OA 230  (*OL equivalency: OL120)  
DATABASE APPLICATIONS  
45 Credit Hours  
Prerequisite: None  
In this course students learn the rules and procedures for maintaining electronic databases. Using the basic functions of MS-Access, students will generate, manage, print, and store data in database tables and create queries, forms and reports.
Course Descriptions

PE 111
APPLIED SCIENCE
52.5 Credit Hours
Prerequisite: Program Admission Requirements
This course exposes the student to SI units, arithmetic functions, basic algebra, fractions, mensuration, fundamentals of physics force and movement, velocity, acceleration, force, work, pressure, power, stress and strain; basic thermodynamic properties, thermal expansion, heat, steam basic chemistry

PE 112
POWER ENGINEERING SAFETY
30 Credit Hours
Prerequisite: Program Admission Requirements
This course will expose the student to Codes and Acts, WHMIS, plant safety, fire protection and environment as they relate to the power engineering field.

PE 113
SKETCHING AND ADMINISTRATION
30 Credit Hours
Prerequisite: Program Admission Requirements
This course exposes students to mechanical drawings and administration.

PE 116
BOILERS
75 Credit Hours
Prerequisite: Program Admission Requirements
This course exposes the student to high-pressure boilers, fittings and their operation.

PE 117
FEEDWATER TREATMENT I
30 Credit Hours
Prerequisite: Program Admission Requirements
This course exposes the student to treatment of water to make it suitable for use in boilers, as well as knowledge of impurities and their effects in boilers.

PE 200
WORK EXPERIENCE
120 Credit Hours
Prerequisite: Successful Completion of Semester 1
Students are placed one day per week in each semester in selected industries in Thunder Bay and are expected to perform basic equipment maintenance and operation functions under supervision of industry personnel. Performance evaluation will be conducted by both industry and college personnel.

PE 206
MAINTENANCE AND TYPES OF PLANTS
30 Credit Hours
Prerequisite: Successful Completion of Semester 1
This course exposes the student to pieces of equipment used to perform powerhouse maintenance as well as a boiler cleaning, testing and welding qualifications. Also described are types of plants.

PE 207
INSTRUMENTATION AND ELECTRICITY
67.5 Credit Hours
Prerequisite: Successful Completion of Semester 1
Electrical terms, properties, measurement and calculations; power and work; magnetism, measuring devices, conductors and insulators; motors and generators, transformers, distribution and safety. Fundamentals of controls, instrumentation and computers.

PE 208
WORK EXPERIENCE
120 Credit Hours
Prerequisite: Successful Completion of Semester 1 & 2
Students are placed one day per week in each semester in selected industries in Thunder Bay and are expected to perform basic equipment maintenance and operation functions under supervision of industry personnel. Performance evaluation will be conducted by both industry and college personnel.

PE 300
APPLIED SCIENCE II
60 Credit Hours
Prerequisite: Successful completion of Semester 1 & 2
This course exposes students to algebra operations, logarithms, problem solving, trigonometry, mensuration, forces & function, work, power, energy, linear & angular motion, strength of materials, bending of beams, simple machines, pressure, density, flow, heat, state change, calorimetry, thermal expansion, heat transfer, steam properties & calculation and gas laws.

PE 301
CHEMISTRY
60 Credit Hours
Prerequisite: Successful Completion of Semesters 1 & 2
This course involves basic chemistry, engineering materials and mechanical drawings.

PE 302
INSTRUMENTATION
60 Credit Hours
Prerequisite: Successful Completion of Semesters 1 & 2
This course exposes students to Industrial Legislation, piping, fuels and combustion

PE 303
INDUSTRIAL LEGISLATION, PIPING, FUELS AND COMBUSTION
60 Credit Hours
Prerequisite: Successful Completion of Semesters 1 & 2
This course exposes students to Industrial Legislation, fuels and combustion and piping as they pertain to the power engineering field.

PE 304
ELECTROTECHNOLOGY & INSTRUMENTATION
90 Credit Hours
Prerequisite: Successful Completion of Semesters 1 & 2
This course provides the student with electrical AC & DC theory. They will be familiar with generators, motors, starters, controllers, codes, calculations and electron theory. They are also introduced to instruments and controls used for temperature, pressure, level and flow measurements.
Course Descriptions

PE 306  
INDUSTRIAL SAFETY AND FIRE PROTECTION  
30 Credit Hours  
Prerequisite: Successful completion of semesters 1 & 2  
Students will gain knowledge of legislation and programs that manage safety and fire protection in the workplace.

PE 400  
WORK EXPERIENCE  
120 Credit Hours  
Prerequisite: Successful Completion of Semesters 1, 2 & 3  
Students are placed one day per week in each semester in selected industries in Thunder Bay and are expected to perform basic equipment maintenance and operation functions under supervision of industry personnel. Performance evaluation will be conducted by both industry and college personnel.

PE 411  
BOILERS AND CONTROL SYSTEMS  
75 Credit Hours  
Prerequisite: Successful Completion of Semesters 1, 2 & 3  
This course will give the students knowledge of boilers and their control systems.

PE 413  
FEEDWATER TREATMENT II  
45 Credit Hours  
Prerequisite: Successful Completion of Semesters 1, 2 & 3  
This course gives students the knowledge of impurities in water, what they cause in boiler systems and how they are treated and tested.

PE 414  
PRIME MOVERS  
90 Credit Hours  
Prerequisite: Successful Completion of Semesters 1, 2 & 3  
This course gives students knowledge of the operation and construction of steam and gas turbines, internal combustion engines and cogeneration.

PE 415  
REFRIGERATION, AIR COMPRESSION AND WASTEWATER TREATMENT  
60 Credit Hours  
Prerequisite: Successful Completion of Semesters 1 and 2  
This course comprises the study of the following: Air Compression: operation of different types of air compressors, theory of air compression and controls. Refrigeration: principles of operation of different types of refrigeration systems and their auxiliaries. Wastewater Treatment: operation, design and monitoring of process and equipment used to treat wastewater.

PE 416  
PUMPS, WELDING AND PRESSURE VESSELS  
60 Credit Hours  
Prerequisite: Successful completion of semesters 1, 2 and 3.  
This course exposes students to pumps, welding and pressure vessels.

PE 417  
POWER ENGINEERING CO-OP PLACEMENT  
600 Credit Hours  
Prerequisite: Successful completion of all core courses in semesters 1 and 2  
The placement is negotiated and coordinated by the Placement Office and the Program Coordinator. The procedures and regulations pertaining to this placement will be according to the College’s “CO-OP HANDBOOK FOR STUDENTS”. During this work placement, the actual duration of which will be 16 weeks, the student has the opportunity to apply his/her theory and practical skills in a full-time work situation outside of the academic environment. This will help the student in developing his/her long-term career goals. In addition to having his/her work performance evaluated by the employer, the student will complete and submit for evaluation a formal report describing the placement.

PF 117  
HUMAN DIVERSITY/ABORIGINAL PEOPLE  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
In this course, students will critically identify and examine issues in diversity. Specifically, students will focus on topics pertaining to inequality in various social settings, including, but not limited to: race, gender, ethnicity, class, and sexual orientation. Incorporating social/legal explanations of diversity, students will develop a clear understanding of the impacted groups and possible strategies of community empowerment. Knowledge and awareness of important issues in the Aboriginal culture of Canada are important in Canadian Society. The legal status of Aboriginal people will be explored along with Aboriginal rights and self-determination. Other critical issues relating to land claims, justice, and social services will be studied.

PF 118  
FITNESS AND LIFESTYLE MANAGEMENT I  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course introduces the student to the concepts of wellness and provides practical strategies for developing a healthy lifestyle. Students, through lectures, practical experience, and self-evaluation, will address physical fitness, nutrition, self-responsibility, and social interaction. The student will develop strategies to design, and implement an effective personal fitness program and develop strategies to be successful at the Fitness Requirement Standards.

PF 221  
PROVINCIAL STATUTES  
45 Credit Hours  
Prerequisite: PF 111  
In this course, the student will develop the knowledge, skills, and ability to locate, interpret, and apply sections of selected provincial statutes, including the Highway Traffic Act of Ontario and its Regulations. Civil law will also be examined as it relates to the workplace. Students will examine the purpose of each of the statutes, arrest, search, seizure and other special authorities contained in the statutes. Students will develop and employ strategies and procedures for dealing with a variety of occurrences.
PF 222
CRIMINAL CODE
45 Credit Hours
Prerequisite: PF 111
In this course, students will analyze specific elements of selected criminal code offences including criminal traffic related matters. Other offences will include offences against the person, against property, and against public order. Students will research case law and assess its impact on criminal offences and use case law to argue or defend decisions.

PF 224
COMMUNICATIONS II
45 Credit Hours
Prerequisite: CS 040 or CS 007
In this advanced course, students will write notebook entries and other professional reports following guidelines used in the workplace. They will complete exercises that familiarize them with professional communication practices including business writing. The student will develop and enhance their reading, listening, and grammatical skills and acquire effective presentation skills.

PF 225
GOVERNMENT OF CANADA
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to focus on both public administration and the Canadian political structure. It includes the organizational administration workings and interaction among federal, provincial and local governments. Students develop an awareness of dominant and underlying issues related to law enforcement that affect the formal and informal political, public administration, and management process. The course also includes a description of the organization of the three levels of government and interaction between each government level, the democratic election and legislative process. Students will also be introduced to the services of each level of government, the daily problems and issues facing Canadians, and impact on the field of law enforcement by public opinion and special interest groups.

PF 228
FITNESS AND LIFESTYLE MANAGEMENT II
45 Credit Hours
Prerequisite: PF 118
A continuation of Fitness and Lifestyle Management I, this course builds on the concepts of wellness and provides practical strategies for developing a healthy lifestyle. Students, through lectures, practical experience, and self-evaluation, will address Physical Fitness, Stress Management, Coronary Heart Disease, Shift Work, and Back Health. The student will develop strategies to implement an effective personal fitness program and be successful at achieving bona fide fitness requirement standard.

PF 331
CRIMINOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
This course provides an examination of various theoretical explanations of criminal and deviant behaviour including the sociological, biological, and psychological perspectives. Criminological theory is related to various types of criminal activity and the reality of crime in Canada including victimology. Criminology is examined through crime statistics and correlates to criminal behaviour. The impact on theory on the development and effectiveness of the criminal justice system is discussed with an emphasis on future trends within the system.

PF 333
POLICE POWERS I
45 Credit Hours
Prerequisite: PF 221, PF 222
This course will examine pertinent sections of the Canadian Charter of Rights and Freedoms and their impact on Canadian criminal procedure. Citizen and police arrest and release authorities, police powers of search and seizure, with and without warrant, and the use and implications of police discretion will be the main themes of the course. The student will become familiar with police terminology and with the documentation required to affect arrest and release. A focus on police governance and accountability will also be examined. Issues related to the Police Services Act, police complaints, First Nations policing, and management and labour will be discussed.

PF 334
EVIDENCE
45 Credit Hours
Prerequisite: PF 222
In this course, students will examine the legal requirements and best practices for conducting investigations. They will learn the rules of evidence and develop the ability to apply said rules in the collection and presentation of evidence in a court of law. Forensic requirements, statute law, and other related issues will be emphasized.

PF 335
YOUTH IN CONFLICT WITH THE LAW
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will enable the student to explain and analyze the historical, philosophical, and contemporary application of statutes affecting youth in conflict with the law. As well, this course will enable the student to examine and analyze, in the context of the Youth Criminal Justice Act and other relevant legislation, the detention, interviewing, and processing through the court structure of young offenders. In addition, the student will be able to summarize and appraise disposition alternatives that may be employed with a view to aiding and rehabilitating a young offender while facilitating public safety and victim response, if applicable.

PF 336
PRINCIPLES OF ETHICAL REASONING
45 Credit Hours
Prerequisite: Program Admission Requirements
This course focuses upon ethical issues and dilemmas faced by individuals as citizens and as professionals. It helps students to clarify their values and establish a framework for ethical decision-making. Ethical issues of a general nature which relate to a wide variety of concerns are examined. The student will investigate the ethical codes of their chosen vocation and apply ethical analysis models to dilemmas which typify those often encountered in the proactive of their profession.

PF 338
FITNESS AND DEFENSIVE TACTICS I
45 Credit Hours
Prerequisite: PF 228
Based on the skills and knowledge gained in Fitness and Lifestyle Management I & II, this course will center on the practical application of bonafide physical and occupational requirements. Students will be required to apply appropriate fitness skills to continue to increase and/or maintain an overall physical fitness level that will allow the student to work towards meeting or achieving occupational fitness standards, including the Physical Readiness Evaluation for Police/Physical Abilities Requirement Evaluation (PREP/PARE) tests. This course will also examine various methods of self defense as well as the arrestee’s well-being; including excited delirium and positional asphyxia. Use of force theory, law, and other legal issues related to the use of force will be discussed.
PF 442
FEDERAL STATUTES
45 Credit Hours
Prerequisite: PF 222
This course is a continuation of Criminal Code. Students will analyze elements of offences related to weapons and the Firearms Act; the Criminal Code; and controlled drugs and substances, and the Controlled Drugs and Substances Act. Provisions of other Federal statutes and their relationship with the Criminal Code will also be examined.

PF 443
POLICE POWERS II
45 Credit Hours
Prerequisite: PF 333
Co-requisite: PF 444
This course is the practical application of concepts and theories taught in a number of courses including Criminal Code, Provincial Offences and Police Powers I. The student will demonstrate and respond to various scenarios where the application of police power is paramount. i.e. traffic stops, barricaded persons, domestic violence, warrant execution etc. During these scenarios the students will apply and adjust their level of force to affect arrests in fluid/dynamic situations.

PF 444
INVESTIGATIONS
45 Credit Hours
Prerequisite: PF 222, PF 334
Co-requisite: PF 443
In this course, students will learn all aspects of case management related to investigation. Students will work with information gleaned from various scenarios and examine documents commonly included in a Crown Brief. In a culminating exercise, students are required to produce a Crown Brief based on a simulated crime scene held during the semester. The Brief will include applicable documents, such as Informations, Synopses, Will Says, and various other reports, designed to organize and present evidence.

PF 445
CONFLICT MANAGEMENT
45 Credit Hours
Prerequisite: PF 112
This course is designed to develop the ability of the participant to intervene in conflict and crisis situations with competence and confidence. The conflict situation will be examined from its inception through intervention by police. Various problem-solving skills and non-violent intervention techniques will be discussed along with intervention strategies directed toward specific incidents. The student will be taught to recognize behaviour patterns that may lead to violent encounters and the appropriate legal responses to these encounters. These responses will emphasize officer safety through awareness and preparation.

PF 446
COMMUNITY POLICING
45 Credit Hours
Prerequisite: Program Admission Requirements
In this course, the student will be introduced to theory and models of community policing. Problem solving models and alternative dispute resolution strategies will be examined. The students will apply crime prevention through environmental design strategies, problem-oriented policing, and elements of volunteerism. Students will be required to assess a community problem, develop, implement, and evaluate a strategy to resolve it.

PF 448
FITNESS AND DEFENSIVE TACTICS II
45 Credit Hours
Prerequisite: PF 338
Based on the skills and knowledge gained in Fitness and Lifestyle Management I & II Fitness and Defensive Tactics I, this course will focus on the practical application of bonafide physical and occupational standards. Successful completion of the Physical Readiness Evaluation for Police (PREP) test is required for graduation. Students will also understand the importance of officer safety including prisoner management, contagious diseases and weapon retention.

PH 144 (*OL equivalency: OLS09)
PHYSICS I
45 Credit Hours
Prerequisite: Program Admission Requirements
Combined with Physics II, this course is designed to deepen the students understanding of physics, and build a foundation for future courses and careers. An emphasis is placed on the development of questioning and communication skills. Societal impacts related to this branch of science and its technological applications will be discussed. The course package will include a review of basic physics and a study of functional mechanics: forces, linear/circular motion, energy and momentum. Upon the successful completion of PH144 and PH244 the participant will possess a comprehensive theoretical understanding on which to base subsequent education.

PH 146
HEALTH CARE INFORMATICS
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will help students become aware of the opportunities and trends in the economy that affect Healthcare professionals through a combination of learning activities such as health career presentations, guest speakers, videos, web research and job shadowing. Students will examine traditional and non-traditional health care roles as well as gain valuable insight into their own personal affinity towards a Healthcare career. Additionally this course will introduce students to the basic features of Microsoft Office and Internet Explorer so that students can assemble their specific health career information using the different programs contained within the Microsoft Office Suite.

PH 147
BIOLOGY I
60 Credit Hours
Prerequisite: Program Admission Requirements
In Biology I, students will complete a thorough examination of atoms, molecules, the molecular building blocks of life, cellular structure, metabolism, gene expression, the transmission of hereditary characteristics that maintains unity and the role of evolution in driving the ongoing diversity of Earth’s ecosystems. For students to acquire a comprehensive knowledge of the essentials of biology, both courses are required. Biology I and II are an articulated equivalent to Grade 12U Biology, Ontario Secondary School Curriculum.

PH 148
CHEMISTRY I
60 Credit Hours
Prerequisite: Program Admission Requirements
In Chemistry I, students will acquire a solid understanding of the basic concepts of chemistry. Topics covered in Chemistry I will include the study of matter and chemical bonding, quantities in chemical reactions, solutions and solubility, and gases and atmospheric chemistry. The chemistry concepts will continually highlight the connections of chemistry with health, medicine and research areas. The laboratory component incorporated within this course will allow students the opportunity to apply the chemistry concepts as well as learn important laboratory practices. For students to acquire a comprehensive knowledge of chemistry, both Chemistry I (PH148) and Chemistry II (PH248) courses are required.
Course Descriptions

PH 210
PHYSICS
45 Credit Hours
Prerequisite: Completion of first semester courses.
This course applies the principles of math and physics to solve problems related to electronics and industrial process measurements.

PH 244
PHYSICS II
45 Credit Hours
Prerequisite: PH 144
In addition to Physics I, this course further develops the students understanding of applied science. Concepts introduced in PH144 will be addressed in greater detail. An individual’s inquisitive nature and the abilities required to search for answers will be encouraged and fostered. Further impacts on society by science will be discussed. Core course components include the study of: electromagnetism, waves and light, Quantum and particle physics, and an independent analysis of the primary ‘theories of relativity’. Upon successful completion of PH144 and PH244 the student will be prepared for future programs and most applied technologies.

PH 245 (*OL equivalency: OL504)
HUMAN BIOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
This course presents human biology in a way that connects it directly with health and disease. It is designed to better prepare students who intend to further their studies in a health sciences field. Major topic areas of the course include: general plan of the human body; causes, cures and prevention of diseases; human body chemistry; structure and function of cells, tissues and organ systems. The major organ systems are studied from an anatomical and physiological perspective with an emphasis on interaction and coordination.

PH 247
BIOLOGY II
60 Credit Hours
Prerequisite: PH 147
Biology I will further student's understanding of the processes involved in biological systems. Students study metabolic processes, evolution, the diversity of living things, homeostasis, and population dynamics. The course focuses on the theoretical aspects of the topics and is for students who wish to pursue studies in the various branches of health sciences. A practical laboratory component provides students the opportunity to further develop their investigation skills through researching, designing and conducting experiments. For students looking to acquire a comprehensive knowledge of the essentials of biology, both the Biology I (PH147) and the Biology II (PH247) courses are required. These, in combination, are an articulated equivalent to the Grade 12U Biology within the Ontario Secondary School curriculum.

PH 248
CHEMISTRY II
60 Credit Hours
Prerequisite: PH 148
Chemistry II will cover hydrocarbons and energy, with a strong focus on organic and biochemistry concepts. These topics will have a strong health science emphasis and will provide students with a chemistry perspective of health and the human body. The laboratory component incorporated within this course will allow students the opportunity to apply the chemistry concepts as well as learn important laboratory practices. For students to acquire a comprehensive knowledge of chemistry, both course Chemistry I (PH148) and Chemistry II (PH248) are required.

PH 348
ADVANCED CHEMISTRY
105 Credit Hours
Prerequisite: Minimum 80% in PH 148 or both PH148 and PH248
This course will enable students to deepen their understanding of chemistry through the study of atomic and molecular structure, chemical systems and equilibrium, electrochemistry, energy changes and rates of reaction, and organic chemistry. Emphasis will be placed on the importance in everyday life and on the evaluation of the impact of chemical technology on the environment. The laboratory component incorporated within this course will allow students the opportunity to apply the chemistry concepts as well as learn important laboratory practices. Advanced Chemistry (PH348), is an articulated equivalent to grade 12U Chemistry within the Ontario Secondary School Curriculum.

PN 125
PROFESSIONAL GROWTH I
45 Credit Hours
Prerequisite: Program Admission Requirements
The course will examine personal learning styles, the concepts of teaching and learning, and their importance in the practice of practical nursing. The use of information technology will be applied to reading and understanding research reports. The concepts of caring, standards of practice, and reflective practice will be introduced. The learner will have the opportunity to explore the evolution of nursing, nursing theories, and be able to develop a personal philosophy of nursing.

PN 126
NURSING THEORY I
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will introduce the learner to the theoretical and conceptual frameworks of health and healthy lifestyles, nursing process and critical thinking. The dimensions of human needs throughout the lifespan will be explored with an emphasis on the significance of self-responsibility, and the change process.

PN 127
NURSING PRACTICE I
60 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide the learner with opportunities to apply concepts and knowledge gained in the classroom environment in the practice setting. The emphasis will be on promotion of health and wellness of well individuals throughout the lifespan. The learner will be introduced to the individuals in selected age groups, through simulation, practice in laboratory and community facilities. The learner will gain knowledge of medical terminology and will be introduced to various skills required by individuals in selected age groups which include hand washing and medical asepsis; principles of proper body mechanics; hygienic care; mobility and ambulation; measurement of vital signs; WHMIS; safety in various age groups; and health teaching.
PN 128 HUMAN RELATIONSHIPS
45 Credit Hours
Prerequisite: Program Admission
Requirements
Using an experiential approach, this course will focus on the learner on skills necessary to communicate effectively on a personal and professional level. The concepts of caring will be used as a basis to explore the helping relationship, interviewing skills and group dynamics.

PN 225 NURSING PRACTICE II – CLINICAL
180 Credit Hours
Prerequisite: HS 125, PN 125, PN 126, PN 127, PN 128
Co-requisite: PN 226
This course further explores the concept of health promotion and health protection with well individuals. The learner will gain basic assessment and nursing skills required to care for the individual in selected age groups. The course will consist of three components: independent learning, laboratory practice, and clinical experience with community agencies.

PN 226 NURSING PRACTICE II – LAB THEORY & PRACTICE
60 Credit Hours
Prerequisite: HS 125, PN 125, PN 126, PN 127, PN 128
Co-requisite: PN 225
This course further explores the concept of health promotion and health protection with well individuals. The learner will gain basic assessment and nursing skills required to care for the individual in selected age groups. The course will consist of three components: independent learning, laboratory practice, and clinical experience with community agencies.

PN 228 HEALTH ASSESSMENT
45 Credit Hours
Prerequisite: HS 125, PN 125, PN 126, PN 127
This course will provide the practical nursing student with knowledge of the nursing process and the skills to conduct a health assessment. Using critical thinking and a problem solving approach, students will assess through data collection, formulate nursing diagnoses, plan nursing interventions to achieve desired outcomes and evaluate the client’s response. As part of data collection, students will develop skills in performing a comprehensive health assessment (health history and physical examination) of healthy individuals who are at various stages of the life cycle. Basic health promotion strategies will also be discussed. Students will discuss theory in the classroom and then apply it through lab simulation practice.

PN 322 PROFESSIONAL GROWTH II
45 Credit Hours
Prerequisite: PN 125
This course will prepare the learner for entry into the workplace through exploration of leadership, conflict resolution, and advocacy. Leadership and management roles within health care will be examined. The process of transition from student to nurse will be explored.

PN 326 NURSING PRACTICE III – CLINICAL
210 Credit Hours
Prerequisite: HS 225, PN 126, PN 225, PN 226, PN 228
Co-requisite: PN 327
This course will provide the learner with opportunities to examine the role of the practical nurse when caring for individuals with health challenges. The learner will utilize critical thinking skills to plan and implement holistic nursing care. The experience will take place in the laboratory setting and in a variety of medical-surgical areas. Learners are placed in a variety of settings with the focus on assessing client health and providing nursing care to individuals experiencing health challenges. Learning will occur through practice in lab simulation and application of theory to the practice setting. Evaluation of learning is guided by the learning outcomes, satisfactory completion of lab testing, and drug calculation testing. The lab component will focus upon, the following: medication administration; surgical asepsis; IV administration; blood administration; suctioning; chest tubes; tracheotomy care; catheterization; bladder irrigation; nasogastric decompression; and ostomy care.

PN 327 NURSING PRACTICE III - LAB THEORY & PRACTICE
60 Credit Hours
Prerequisite: HS 225, PN 126, PN 225, PN 226, PN 228
Co-requisite: PN 326
This course will provide the learner with opportunities to examine the role of the practical nurse when caring for individuals with health challenges. The learner will utilize critical thinking skills to plan and implement holistic nursing care. The experience will take place in the laboratory setting and in a variety of medical-surgical areas. Learners are placed in a variety of settings with the focus on assessing client health and providing nursing care to individuals experiencing health challenges. Learning will occur through practice in lab simulation and application of theory to the practice setting. Evaluation of learning is guided by the learning outcomes, satisfactory completion of lab testing, and drug calculation testing. The lab component will focus upon, the following: medication administration; surgical asepsis; IV administration; blood administration; suctioning; chest tubes; tracheotomy care; catheterization; bladder irrigation; nasogastric decompression; and ostomy care.

PN 328 PHARMACOLOGY I
45 Credit Hours
Prerequisite: HS 225, PN 126, PN 225, PN 226, PN 228
This course introduces the learner to the concepts of pharmacology as selected drug groups are studied. The course will emphasize the role and responsibilities of the practical nurse in the administration and monitoring of client medications. This course is also designed to assist the learner to acquire the knowledge and master the mathematical skills required to safely calculate drug dosages.

PN 329 PHARMACOLOGY II
45 Credit Hours
Prerequisite: HS 225, PN 126, PN 225, PN 226, PN 227, PN 228
This course will focus on assisting the learner to develop a holistic approach to nursing. A variety of approaches to learning will be utilized and critical thinking strategies will be emphasized as the learner explores the care of individuals and families experiencing and/or predisposed to acute health challenges in a variety of life situations.
Course Descriptions

PN 330 PATHOPHYSIOLOGY I
60 Credit Hours
Prerequisite: HS 225, PN 225, PN 226
This course is designed for students who have a general understanding and working knowledge of the structure and function of the human body. Students will examine acute changes that may occur in the human body and explore how the body compensates for those deviations.

PN 422 NURSING PRACTICE IV – CLINICAL
140 Credit Hours
Prerequisite: PN 228, PN 322, PN 326, PN 327, PN 328, PN 329, PN 330
Co-requisite: PN 426
This course will provide the learner with opportunities to examine the role of the practical nurse when caring for individuals who require supportive, rehabilitative and palliative care. The learner will also be exposed to individuals with mental health challenges. Critical thinking skills will be refined to plan and implement holistic nursing care. This experience will take place in the laboratory setting and in a variety of clinical settings. Opportunities for practical application of nursing concepts & knowledge to simulated and actual client situations is essential preparation for human science discipline. The practical nurse has a role of assisting the client requiring supportive, rehabilitative and palliative care.

PN 426 NURSING PRACTICE IV – LAB THEORY & PRACTICE
30 Credit Hours
Prerequisite: PN 228, PN 322, PN 326, PN 327, PN 328, PN 329, PN 330
Co-requisite: PN 422
This course will provide the learner with opportunities to examine the role of the practical nurse when caring for individuals who require supportive, rehabilitative and palliative care. The learner will also be exposed to individuals with mental health challenges. Critical thinking skills will be refined to plan and implement holistic nursing care. This experience will take place in the laboratory setting and in a variety of clinical settings. Opportunities for practical application of nursing concepts & knowledge to simulated and actual client situations is essential preparation for human science discipline. The practical nurse has a role of assisting the client requiring supportive, rehabilitative and palliative care.

PN 427 PHARMACOLOGY II
45 Credit Hours
Prerequisite: PN 322, PN 326, PN 327, PN 328, PN 329, PN 330
This course builds upon concepts of pharmacology introduced in Pharmacology I. The course will emphasize the role and responsibilities of the practical nurse in the administration and monitoring of client medications. This course is also designed to build upon knowledge and mathematical skills introduced in Pharmacology I.

PN 428 PATHOPHYSIOLOGY II
40 Credit Hours
Prerequisite: PN 330
This course is designed for students who have a general understanding and working knowledge of the structure and function of the human body. Students will examine chronic changes that may occur in the human body and explore how the body compensates for those deviations.

PN 429 NURSING THEORY IV
40 Credit Hours
Prerequisite: PN 329
In this course, the learner will continue to develop a holistic approach to nursing. A variety of approaches to learning will be utilized and critical thinking strategies will be emphasized. The learner explores the care of individuals, families and groups experiencing common chronic health challenges requiring rehabilitative, restorative and palliative care. The learner will also explore the care of individuals experiencing mental health challenges. The Client may be an individual, family or group.

PN 526 NURSING PRACTICE V
160 Credit Hours
Prerequisite: Successful completion of all first, second and third semester Practical Nursing courses.
This clinical experience will provide the practical nursing learner with the opportunity to consolidate skills and knowledge at a level approaching that of a beginning graduate. Partnered with a Registered Practical Nurse, as a preceptor, the learner will gradually increase nursing practice skills within the professional role. This experience will take place on both acute and long-term settings.

PN 626 NURSING PRACTICE VI
160 Credit Hours
Prerequisite: PN 526
This clinical experience will provide the practical nursing learner with the opportunity to consolidate skills and knowledge at a level approaching that of a beginning graduate. Partnered with a Registered Practical Nurse, as a preceptor, the learner will gradually increase nursing practice skills within the professional role. This experience will gradually increase nursing practice skills within the professional role. This experience will take place on both acute and long-term settings.

PW 101 SUPPORTIVE CARE THEORY I
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to provide the learner with information that will enable them to provide assistance to the consumer/client in their role as Personal Support Worker. Topic areas covered will include individuality, support/care plans, safety, mobility and household management.

PW 102 PROFESSIONAL GROWTH I
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will examine legislation, consumer rights and ethics of care in relation to the role and scope of practice for the Personal Support Worker. It will introduce the learner to different types of health care agencies. It will also explore concepts of teaching and learning, as well as time and stress management that will provide a base that will enhance their success. This course will also prepare the learner for entry into the work place through exploration of a variety of topics such as the concept of worker abuse, job searching skills and life long learning.

PW 106 PRACTICE I (PSW LAB)
15 Credit Hours
Prerequisite: Program Admission Requirements
This course will provide the learner with an opportunity to practice in a simulated placement setting concepts and knowledge learned in the classroom. This course will consist of hands-on laboratory practice.
PW 107
PSW PRACTICE I: COMMUNITY CLINICAL
80 Credit Hours
Prerequisite: Successful completion of PW101, PW102, and PW106
This course will provide the learner with an opportunity to apply in a supervised placement, knowledge and concepts learned in the classroom and lab. This course will consist of: independent learning, and clinical experience within a community setting. Prerequisite: Successful completion of all the above courses

PW 201
SUPPORTIVE CARE THEORY II
45 Credit Hours
Prerequisite: PW 101
This course is designed to provide the learner with information that will enable them to examine the role of Personal Support Worker when providing assistance to the consumer/client with health challenges. The learner will explore the concepts involved in providing optimal support and care. Topic areas examined will include care for the individual, assisting with the family, common medical disorders, mental health conditions and issues, death and dying.

PW 206
PSW PRACTICE II: LAB
24 Credit Hours
Prerequisite: PW 106
This course will provide the learner with an opportunity to practice in a simulated setting the concepts and knowledge learned in the classroom. The course will consist of hands-on laboratory practice in preparation of clinical placement in a long-term care setting.

PW 208
PSW Clinical: Consolidation
148 Credit Hours
Prerequisite: PW 206 & PW 207
This clinical experience provides the learner with an opportunity to integrate the knowledge and skills acquired throughout the program in both a community and a long-term facility under a preceptor ship program.

PY 063
CHILD DEVELOPMENT
45 Credit Hours
Prerequisite: Program Admission Requirements
This course explores life from a chronological perspective including an Aboriginal development life cycle worldview, beginning with and concluding with adolescence. Each developmental period will be examined in relation to physical, motor, cognitive and social-emotional aspects of development. This course will examine the interaction between internal and external factors that effect development.

PY 112
PSYCHOLOGY OF SHOPPING
45 Credit Hours
Prerequisite: Program admission requirements
This course will introduce students to the psychology behind shopping. It is designed to help consumers become more responsible shoppers by understanding the factors that influence purchase decisions. Strategies to save time, money and the environment will be explored. The consumer buying process, including value, motivation, perception, post-purchase behaviour and dysfunctional shopping behaviour will be examined. As well as consumer laws, consumer ethics and the benefits of becoming an ethical consumer are also investigated.

PY 133
PSYCHOLOGY AND PERSONAL DEVELOPMENT
45 Credit Hours
Prerequisite: Program Admission Requirements
According to Socrates, “The unexamined life is not worth living.” Human lives are a journey in self discovery but most of us don’t know how to examine our lives in a helpful way. Personal and professional success is related to learning life’s lessons. You have the right to be, to have and to do. However, most of us spend our lives having and doing but never being. In this course, you will answer and share 14 life questions designed to help you challenge your fears, turn yourself around and move in new directions.

PY 163
CHILDHOOD DEVELOPMENTAL PSYCHOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
This course covers the study of age-related changes in behaviour, thinking, emotion, and personality from conception through childhood. A contemporary Canadian perspective is emphasized throughout and explanations and resources for your personal interests and/or professional needs will be addressed. PY 163 can be combined with PY 263, Adolescence developmental Psychology, for comprehensive coverage of lifespan development from conception to death.

PY 169 (*OL equivalency: OL218)
INTERPERSONAL COMMUNICATION SKILLS
45 Credit Hours
Prerequisite: Program Admission Requirements
Using a combination of theory and acquired skills, students will learn to express themselves more effectively while preserving the dignity of everyone involved. They will develop the confidence necessary to control their lives without trying to control others in the process. This course facilitates personal growth as the students develop more effective self-expression and healthier relationships. Experiential learning, using a variety of techniques, will be emphasized. Students will participate in role-play, discussions, presentations and personal evaluations.

PY 199
INTRODUCTORY PSYCHOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to the world of psychology by highlighting human behaviour and mental processes at the individual level. Students will learn why people do and thing the way they do from a variety of perspectives and how psychological principles apply to everyday life situations. This introductory course provides a strong foundation for other courses in psychology.

PY 200
PSYCHOLOGY OF PERCEPTION
45 Credit Hours
Prerequisite: Program Admissions Requirements
This course is an eclectic introduction to perception, art and the creative process. It challenges students to explore the notion of the computer as a creative medium which offers new possibilities for artistic expression and experimentation. This course focuses on human processes of perception, and how and why humans are able to experience two-dimensional products as having three-dimensional real-world qualities. Students will improve their perceptual abilities as they discover how humans interpret, organize communication and media, students will also become adept at critiquing such influences in multimedia productions. Finally, Students will discern the impact of multimedia design in contemporary and postmodern art.
Course Descriptions

PY 263
ADULTHOOD DEVELOPMENTAL PSYCHOLOGY
45 Credit Hours
Prerequisite: GE 063, PY 163, PY 299 or equivalent
This course covers the study of age-related changes in behaviour, thinking, emotion, and personality from adolescence through adulthood. A contemporary Canadian perspective is emphasized throughout and explanations and resources for your personal interests and/or professional needs will be addressed. PY 263 can be combined with PY 163, Childhood Development Psychology, for comprehensive coverage of lifespan development from conception to death.

PY 299 (*OL equivalency: OL215)
DEVELOPMENTAL PSYCHOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is an overview of the human lifespan. The major areas of study include the physical, cognitive, social, and personality domains of development. Students will complete assignments that demonstrate their understanding of human development. In addition, students will identify factors that promote human development.

PY399
ABNORMAL PSYCHOLOGY
45 Credit Hours
Prerequisite: Program Admission Requirements
Together with current research discoveries, this course provides an integrated view of the historical and contemporary models of abnormal behaviour. Emphasis is placed on the exploration of the complex causes, manifestations and treatment of common psychological disorders. Upon completion, students should have a critical appreciation of the challenges faced by people who are coping with mental health problems.

RA 113
GENERAL RADIOGRAPHY I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: RA 111, RA 115, RA 117, RA 119
General Radiography I is the first of three courses detailing the positioning of patients and X-ray equipment and use of accessory apparatus in the examination of the patient for general radiographic examinations. The student will demonstrate skills in radiography of the upper limb, shoulder girdle, lower limb, pelvic girdle and the vertebral column. Skills acquired in this course will be practised in Clinical Lab and be complemented by skills acquired in Patient Management and knowledge of radiographic equipment acquired in Radiographic Equipment Operation as well as knowledge acquired in Radiographic Anatomy and Pathology.

RA 115
RADIOGRAPHY EQUIPMENT OPERATION I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: RA 113, RA 117
Radiography Equipment Operation I is the first of three courses detailing the design and operation of diagnostic X-ray, radiographic image processing and accessory equipment. The student will acquire knowledge of the science behind radiographic image production, X-ray production, and manipulation of all exposure parameters to produce diagnostic images and adapt the exposure for patient-specific results. The student will establish expertise in radiographic imaging principles by experimentation in the radiography lab.

RA 117
CLINICAL LAB I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: RA 111, RA 113, RA 115, RA 119
Clinical Lab I is the first of three courses in which the student will demonstrate and gain competence in the practice of medical radiation technology of examinations studied in RA113 in a clinical simulation setting prior to practice in an actual clinical environment. The student will demonstrate patient handling skills studied in RA111. The student will demonstrate skills in film and digital image processing and utilize anatomical phantoms to produce X-ray images on film and on digital imaging media. The student will also use computers to evaluate, critique and label images for anatomy demonstrated. As well, the student will discuss pathology demonstrated in radiographic images, and covered in RA119, with classmates and professors.

RA 119
RADIOGRAPHIC ANATOMY & PATHOLOGY I
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: RA 113, RA 117
In this course the student will demonstrate knowledge of normal anatomy and variants of the upper limb, shoulder girdle, lower limb, pelvic girdle and the vertebral column that will complement the radiographic examinations of these regions studied in RA113. The student will be introduced to the study of disease and also demonstrate knowledge of pathology of the skeletal system and identify this anatomy and pathology on radiographic images. The student will practice skills in identifying anatomy and pathology in RA117.

RA 208
PROFESSIONAL PRACTICE/IPE
45 Credit Hours
Prerequisite: RA 111, RA 113
Co-requisite: RA 211
This course will introduce the student a wide selection of current issues of professional practice in medical radiation technology and the other health professions. The student will demonstrate knowledge of all legislation affecting the medical radiation technologist, the functions of professional and regulatory organizations, risk management strategies and the Canadian Health Care system. The student will also explore the roles of and interactions with other health care and community services professionals.

RA 209
RADIOGRAPHIC ANATOMY & PATHOLOGY II
45 Credit Hours
Prerequisite: RA 113, RA 117, RA 119
Co-requisite: RA 208, RA 217, RA 219
In this course the student will demonstrate knowledge of normal anatomy and variants of the thoracic cage, respiratory system, abdomen and skull that will complement the radiographic examinations of these regions studied in RA211. The student will also demonstrate knowledge of pathology of the respiratory, urinary, digestive, cardiovascular, reproductive and central nervous systems and will identify this anatomy and pathology on radiographic images. The student will practice skills in identifying anatomy and pathology in RA217.
Course Descriptions

RA 211 GENERAL RADIOGRAPHY II
45 Credit Hours
Prerequisite: RA 113, RA 115
Co-requisite: RA 209, RA 213, RA 217
General Radiography II is the second of three courses detailing the positioning of patients and X-ray equipment and use of accessory apparatus in the examination of the patient for general radiographic examinations. The student will demonstrate skills in radiography of the thoracic cage, respiratory system, abdomen and skull. Skills acquired in this course will be practiced in Clinical Lab and be complemented by knowledge of radiographic equipment acquired in Radiographic Equipment Operation as well as knowledge acquired in Radiographic Anatomy and Pathology.

RA 213 RADIOGRAPHIC EQUIPMENT OPERATION II
45 Credit Hours
Prerequisite: RA 113, RA 115, RA 117
Co-requisite: RA 211, RA 215, RA 217, RA 219
Radiographic Equipment Operation II is the second of three courses detailing the design and operation of diagnostic X-ray, radiographic image processing and accessory equipment. The student will acquire knowledge of the science behind X-ray energy absorption, manipulation of exposure factors and equipment to deal with the consequences of energy absorption, X-ray generator function, fluoroscopic X-ray equipment function, special procedure equipment function. This knowledge will support the principles of radiation protection discussed in Radiation Safety. The student will establish expertise in radiographic imaging principles by experimentation in the radiography lab.

RA 215 RADIATION SAFETY
45 Credit Hours
Prerequisite: RA 113, RA 115
Co-requisite: RA 208, RA 213, RA 217
In Radiation Safety the student will apply knowledge of X-ray energy absorption discussed in Radiographic Equipment Operation II to demonstrate expertise in the anticipation of the effects of diagnostic X-rays and other forms of ionizing radiation on humans and demonstrate knowledge and skill in the protection of patients and personnel from radiation to the current standards of the medical radiation technology profession. The legislation of safe usage of ionizing radiation will be discussed in Professional Practice. These skills will be applied in Clinical Lab where the student will make decisions regarding the balance of radiation safety and image quality using the ALARA and AHARA principles of radiation management.

RA 217 CLINICAL LAB II
45 Credit Hours
Prerequisite: RA 111, RA 113, RA 115, RA 117
Co-requisite: RA 209, RA 211, RA 213, RA 215
Clinical Lab II is the second of three courses in which the student will demonstrate and gain competence in the practice of medical radiation technology of examinations studied in RA211 in a clinical simulation setting prior to practice in an actual clinical environment. The student will demonstrate patient handling skills studied in RA111. The student will demonstrate skills in film and digital image processing and utilize anatomical phantoms to produce X-ray images on film and on digital imaging media. The student will also use computers to evaluate, critique and label images for anatomy demonstrated. As well the student will discuss pathology demonstrated in radiographic images, and covered in RA209, with classmates and professors.

RA 219 RADIOGRAPHIC PROCEDURES
45 Credit Hours
Prerequisite: RA 111, RA 115, RA 119
Co-requisite: RA 209, RA 213, RA 215
In Radiographic Procedures the student will demonstrate knowledge and understanding of advanced radiographic examinations which use contrast agents and/or specialized technology to enhance anatomy and pathology not normally visualized in general radiographic procedures. Topics will include preparation, support and examination of the patient for special procedures of the urinary, digestive, reproductive systems as well as diagnostic and interventional procedures of the cardiovascular system. Pharmaceuticals typically used in these procedures and for support of the patient will also be discussed.

RA 311 ADAPTIVE IMAGING
45 Credit Hours
Prerequisite: RA 111, RA 211
Co-requisite: RA 313
In Adaptive Imaging students will demonstrate and apply critical thinking skills to adapt radiographic procedures in paediatric, geriatric, mobile, trauma, and operating room imaging as well as examination of patients with special needs.

RA 313 RADIOGRAPHIC EQUIPMENT OPERATIONS III
45 Credit Hours
Prerequisite: RA 211, RA 213
Co-requisite: RA 311, RA 319
Radiographic Equipment Operations III is the third of three courses detailing the design and operation of diagnostic X-ray, radiographic image processing and accessory equipment. The student will acquire knowledge of the science behind and use of digital imaging equipment, PACS systems, computed tomography equipment and bone mineral densitometry equipment. The student will establish expertise in radiographic imaging principles by experimentation in the radiography lab.

RA 314 QUALITY MANAGEMENT
45 Credit Hours
Prerequisite: RA 213, RA 215
Co-requisite: RA 313
In Quality Management the student will demonstrate knowledge and understanding of various aspects of image quality and quality management techniques. The student will also demonstrate skill in performing, interpreting and taking corrective action on the results of quality control tests of radiographic, image processing and accessory equipment.

RA 315 CROSS-SECTIONAL ANATOMY/PATHOLOGY
45 Credit Hours
Prerequisite: HS 125, HS 225, RA 119, RA 209
Co-requisite: RA 313, RA 319
In this course the student will demonstrate knowledge of sectional anatomy and pathology typically demonstrated in transverse, sagittal and coronal planes. CT, MR, PET and US images will complement the cadaver photographs and line drawings used to demonstrate anatomical structures and pathological lesions.
Course Descriptions

RA 317 CLINICAL LAB III
45 Credit Hours
Prerequisite: RA 111, RA 113, RA 117, RA 211, RA 215, RA 217
Clinical Lab III is the last of three courses in which the student will demonstrate and gain competence in the practice of medical radiation technology of examinations studied in RA113 and RA211 in a clinical simulation setting prior to practice in an actual clinical environment in the form of complete examinations. The student will demonstrate patient handling skills studied in RA111. The student will demonstrate skills in film and digital image processing and utilize anatomical phantoms to produce X-ray images on film and on digital imaging media. The student will apply knowledge of the principles of radiographic exposure factor selection and manipulation acquired in Radiographic Equipment Operation to formulate an exposure technique chart for the radiography lab X-ray equipment. The student will also apply knowledge of the calculation of patient entrance exposure doses acquired in Radiation Safety to add dose calculations to the exposure technique chart.

RA 319 SPECIALIZED IMAGING
45 Credit Hours
Prerequisite: RA 211
Co-requisite: RA 313, RA 315
In Specialized Imaging students will demonstrate knowledge and understanding of examinations in the imaging modalities of bone mineral density (BMD) and computed tomography (CT). This course will be complemented by the knowledge of sectional anatomy acquired in RA315 as well as knowledge of BMD and CT equipment acquired in RA313.

RA 410 CLINICAL ROTATION I
600 Credit Hours
Prerequisite: RA 311, RA 313, RA 317
This is the first of three consecutive 16-week clinical segments over a one year period in which the student will apply the knowledge and practical skills they have demonstrated in the theory portion of the program curriculum to the radiographic examination of the patients of hospitals and clinics in Thunder Bay, Northwestern Ontario and other potential clinical partners elsewhere. The student will demonstrate a prescribed level of clinical competence prior to entering the next clinical segment and will adhere to the policies and procedures of the clinical partner institutions. The student must be able to travel to and be responsible for the expenses of travel and accommodations associated with clinical rotations.

RA 412 RESEARCH STUDY
45 Credit Hours
Prerequisite: TBA
The Research Study is a self-directed project in which the student will apply the skills developed in the Semester 3 Research course. The student will select a topic, with faculty consultation, which has a direct or indirect application to medical radiography. This paper will be suitable for publication in a provincial, national or international professional journal.

RA 510 CLINICAL ROTATION II
600 Credit Hours
Prerequisite: RA 410
This is the second of three consecutive 16-week clinical segments over a one year period in which the student will apply the knowledge and practical skills they have demonstrated in the theory portion of the program curriculum to the radiographic examination of the patients of hospitals and clinics in Thunder Bay, Northwestern Ontario and other potential clinical partners elsewhere. The student will demonstrate a prescribed level of clinical competence prior to entering the next clinical segment and will adhere to the policies and procedures of the clinical partner institutions. The student must be able to travel to and be responsible for the expenses of travel and accommodations associated with clinical rotations.

RA 610 CLINICAL ROTATION III
600 Credit Hours
Prerequisite: RA 510
This is the last of three consecutive 16-week clinical segments over a one year period in which the student will apply the knowledge and practical skills they have demonstrated in the theory portion of the program curriculum to the radiographic examination of the patients of hospitals and clinics in Thunder Bay, Northwestern Ontario and other potential clinical partners elsewhere. The student will demonstrate a prescribed level of clinical competence prior to graduation from the Medical Radiation Technology Program and will adhere to the policies and procedures of the clinical partner institutions. The student must be able to travel to and be responsible for the expenses of travel and accommodations associated with clinical rotations.

RA 618 EXAM REVIEW
45 Credit Hours
Prerequisite: RA 510
Co-requisite: RA 608, RA 610
In this course the student will consolidate knowledge of the core theory in the Medical Radiation Technology Program in preparation for the Comprehensive Exam which takes place at the end of the semester. Topics reviewed will include: patient management, general radiography, radiographic equipment operation, radiographic anatomy & pathology, professional practice, radiation safety, radiographic procedures, adaptive imaging, quality management and specialized imaging.

RL 122 LEISURE SERVICES
45 Credit Hours
Prerequisite: Program Admission Requirements
The learner will be able to develop a personal philosophy of leisure through an understanding of the recreation delivery system and the benefits of leisure to society.
RL 123  INTERPERSONAL & GROUP EFFECTIVENESS
45 Credit Hours
Prerequisite: Program Admission Requirements
Interpersonal effectiveness and being able to recognize and apply group process are critical to a practitioner’s success in the field of recreation. The student will be introduced to the skills necessary to effectively interact with others and specifically in small groups. Understanding self and personal patterns of communication and behaviour are examined. Participating in actual group processes provides the student with an opportunity to give and receive feedback on their own and other group members’ personal growth and interactions. The student will develop enhanced communication skills, greater awareness of self, and other leadership abilities, as well as group problem solving and conflict management skills.

RL 125  PROGRAM AND EVENT PLANNING I
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will examine and be able to apply skills and leadership qualities necessary in the field of recreation. Curriculum emphasis will be on: program philosophies; program practices; programming criteria; program and event planning, implementation and evaluation processes; leadership development; standards of practice and professionalism; tournament schedules; presentation and public speaking skill development; and computer skills.

RL 126  ADMINISTRATIVE PRACTICES I
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will examine and be able to apply personal and organizational management practices to effectively supervise staff and volunteers in a recreation agency. Students will prepare themselves for placement.

RL 130  ACTIVITY LEADERSHIP I
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will be able to provide direct leadership to participants involved in a variety of seasonal recreation activities. The emphasis of the course is to help students develop leadership qualities and introduce community resources which can be accessed for program development or personal leisure pursuits.

RL 225  THERAPEUTIC RECREATION I
45 Credit Hours
Prerequisite: Program Admission Requirements
The purpose of this course is to introduce the student to the practice of Therapeutic Recreation. The student will be able to identify and apply the competencies and skills necessary to work with people with various disabilities. An emphasis of the course will be on the concept of inclusion and its application in the lives of people with disabilities.

RL 228  MARKETING & PUBLIC RELATIONS
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will examine and be able to apply the basic principles and practices involved in marketing a service and enhancing public relations with the community. The emphasis will be on: developing a marketing plan and portfolio for program/special event promotion; and creating public relation strategies for various publics.

RL 229  ACTIVITY LEADERSHIP II
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will be able to provide direct leadership to participants involved in a variety of seasonal recreation activities. The emphasis of the course is to help students develop leadership qualities and introduce community resources which can be accessed for program development or personal leisure pursuits.

RL 231  PROGRAM AND EVENT PLANNING II
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will examine and be able to apply the principles and practices involved in: special event planning, promotion, implementation and evaluation; conference planning; program plan development; and inclusive programming for diverse populations.

RL 232  FIELD PLACEMENT
210 Credit Hours
Prerequisite: Program Admission Requirements
The student will choose a field placement agency and complete a two-day per week practical work experience to apply the knowledge, skills and attitudes that have been learned in the other courses.

RL 324  ACTIVITY LEADERSHIP III
45 Credit Hours
Prerequisite: Program Admission Requirements
The student will be able to provide direct leadership to participants involved in a variety of seasonal recreation activities. The emphasis of the course is to help students develop leadership qualities and introduce community resources which can be accessed for program development or personal leisure pursuits.

RL 325  THERAPEUTIC RECREATION II
45 Credit Hours
Prerequisite: Prevention in Motion (with CD)
5th edition; Canadian Red Cross 2007
The student will be introduced to the practice of Therapeutic Recreation. The students will be able to identify and apply the competencies and skills necessary to work with people with various disabilities. An emphasis of the course will be on the concept of inclusion and its application in the lives of people with disabilities.

RL 338  FACILITY MANAGEMENT
45 Credit Hours
Prerequisite: Program Admission Requirements
The course provides the learner with the knowledge and skills to contribute to the inclusive, safe and effective management of recreation facilities.

RL 339  ADMINISTRATIVE PRACTICES II
45 Credit Hours
Prerequisite: Program Admission Requirements
This course is designed to provide the student with the skills necessary to apply effective financial and risk management practices for agencies and organizations. As well, the student will learn social science research techniques to assist communities in the provision of leisure services.
**Course Descriptions**

**RL 343 OUTDOOR AND ENVIRONMENTAL STUDIES**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to provide both passive and active classroom and outdoor activities which will enable students to develop experiential knowledge of natural environments. Students will have an informed understanding of human-nature relationships. Contemporary ecotourism issues of national and international interest such as sustainability, indigenous culture, and economic/cultural/environmental impact will be discussed.

**RL 428 INTERNSHIP FOR RECREATION & LEADERSHIP**
400 Credit Hours  
Prerequisite: All Courses from Semester's 1, 2, & 3  
The learner will choose a field placement agency and complete a full semester applying the knowledge, skills and attitudes learned in the other program courses. This component can be completed in a location of the student's choosing.

**RL 430 PLACEMENT FOR ACCELERATED & ENHANCED PROGRAMS**
300 Credit Hours  
Prerequisite: Program Admission Requirements  
In a recreation agency of the student’s choice, the learner will be able to apply the knowledge, skills and attitudes developed through all of the other program courses.

**RL130 ACTIVITY LEADERSHIP I**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will be able to provide direct leadership to participants involved in a variety of seasonal recreation activities. The emphasis of the course is to help students develop leadership qualities and introduce community resources which can be accessed for program development or personal leisure pursuits.

**RT 336 THERAPEUTIC RECREATION PROCESSES**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will be able to apply the three-phase therapeutic recreation process as it pertains to Therapeutic Recreation. Upon completion of the course, the student will be able to develop an appropriate needs assessment as a prerequisite to effective program planning, development and evaluation. The course will have a person-centered focus analyzing leisure lifestyle, strengths and needs. Program design and development; implementation and evaluation of treatment plans; documentation; activity analysis; accountability and outcome assessment of the program; will be the major emphasis of this course.

**RT 337 FACILITATIVE TECHNIQUES**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course provides an opportunity for students to experience and facilitate a variety of therapeutic interventions. Students will be actively involved in facilitative techniques such as but not limited to: Adaptive Aquatics; Music Therapy; Dance Therapy; Healing Touch; Massage Therapy; Relaxation Techniques; Adventure-Based Programs; Pet Therapy; Horticulture; Arts and Crafts; Sensory Stimulation; and others.

**RT 340 ADAPTIVE TECHNOLOGY AND PHARMACOLOGY**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The basic responsibility of safe drug administration and control will be emphasized along with the monitoring of prescribed drugs and their expected therapeutic effects. This course offers the student further skill development in therapeutic approaches using techniques and technology designed to assist in planning activities for diverse populations.

**RT 419 PLACEMENT FOR ACCELERATED AND ENHANCED PROGRAMS**
300 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will choose a field placement agency and complete a three day per week practical work experience in a therapeutic setting and apply the knowledge, skills and attitudes that have been learned in the other courses.

**RT 436 INTERNSHIP FOR RECREATION THERAPY**
400 Credit Hours  
Prerequisite: All Courses from Semester's 1, 2 & 3  
The learner will choose a field placement agency and complete a full semester applying the knowledge, skills and attitudes learned in the other program courses. This component can be completed in a location of the student's choosing.

**SC 110 PRE-TECHNOLOGY SCIENCE I**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course focuses upon the student's ability to cooperate as a responsible member of a laboratory team, while introducing the basic principles of force, motion, thermodynamics, wave theory, and their application to basic science problems.

**SC 210 PRE-TECHNOLOGY SCIENCE II**
45 Credit Hours  
Prerequisite: SC110 Pre-Technology Science I  
This course is continuation of SC 110 and will again focus on the student's ability to co-operate as a responsible member of a laboratory team and demonstrate the basic principles of force, motion, thermodynamics, wave theory, fluid mechanics, and their application to basic science problems. Successful completion of this course (minimum C grade) and SC110 (minimum C grade) is an equivalent credit to the first semester technology science course, GE302.

**SS 115 (*OL equivalency: OL218) INTERPERSONAL EFFECTIVENESS I**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will examine the nature of interpersonal communication, how it is influenced by perception and how it gives rise to the creation of the self. It deals with the nature of emotions and how they are communicated. It looks at verbal and nonverbal communication, listening, communication climates, the nature of friendships, romantic relationships, and how to manage conflict in relationships.
## Course Descriptions

### SS 116 (*OL equivalency: OL253) SOCIAL WELFARE I
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This course will introduce students to the profession of social work/social service work within the framework of the social welfare system in Canada. The history of the profession, educational qualifications, and professional legislation will be identified. Students will research current social issues and understand how ideology/philosophy shapes our perception and the services offered to different client populations. Relevant legislation will be introduced with each population studied.

### SS 121 (*OL equivalency: OL201) FAMILY VIOLENCE
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
Students will gain knowledge and insight into the many forms of family violence across the life span using a case study approach, including violence against persons with disabilities and aboriginal people. Profiles of victims and abusers, theories and factors that increase the risk of violence and solutions (intervention) to this social problem will be explored from a micro, mezzo and macro perspective. Northern issues in family violence and current legislation will be presented.

### SS 200 SOCIAL SERVICES SEMINAR I
45 Credit Hours  
Prerequisite: Successful completion of Semester 2.  
Co-requisite: SS230, SS350  
This seminar will provide the student with an opportunity to share experiences from their fieldwork with their classmates, and to integrate theory covered in SS 220, as well as previous courses. Problem solving approaches will be explored, and students will prepare and deliver specific information around selected topic areas related to organizational structure, ethics and client needs. Students will learn how to apply a case management approach to their work with clients.

### SS 214 COMMUNITY DEVELOPMENT
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This course will introduce the student to the history, theory and practice of community development. It will include the definition of community, a discussion of the roles and skills of the Social Service Worker in community work and different practice models. The concepts of power, disempowerment and empowerment will be explored in relation to community organizing. The course will provide students with an opportunity to apply what they learn in a group project.

### SS 215 INTERPERSONAL EFFECTIVENESS II
45 Credit Hours  
Prerequisite: SS 115  
This course provides students with the opportunity to develop basic professional “helping” skills. An introductory skills course, it provides students with an opportunity to apply theoretical concepts. Students are challenged to explore the nature and purpose of the professional helping relationship. Students will demonstrate the use of self in helping relationships.

### SS 216 SOCIAL WELFARE II
45 Credit Hours  
Prerequisite: SS 116  
The purpose and structure of social welfare organizations will be presented and discussed, as a continuation of SS 116 Social Welfare I. Students will learn about the organizations that provide social services, the legislation that governs them, and how they can be used in intervention plans for clients. Formal and informal help in relation to the professional role will be identified as well as barriers to service delivery. Students will research and make presentations regarding local agencies that provide placement opportunities for social service students. Students will also research and present information regarding the client groups served by these agencies. An understanding of the role of the student in field placement agencies will be emphasized.

### SS 217 PRACTICE TECHNIQUES
45 Credit Hours  
Prerequisite: SS 115  
Co-requisite: SS 215, SS 250  
This course provides students with an understanding of the historical development of social work practice and the practice frameworks that will be applied in field placement. Students will learn the five phases of the social work planned change process, crisis intervention and a working knowledge of systems theory.

### SS 223 ADDICTIONS
45 Credit Hours  
Prerequisite: Program Admission  
Requirements  
This introductory course will provide students with basic knowledge and understanding of the major components of addiction: introduction to addiction counseling; treatment of addictions; treatment of addictions in special populations; and addiction in Northern and Rural communities. The course will examine the spectrum of addictions—gambling, substance abuse, other kinds of addictions as well as examining current issues such as co-occurring diagnosis and a variety of treatment approaches.

### SS 250 FIELD PLACEMENT PREPARATION
45 Credit Hours  
Prerequisite: Successful completion of Semester 1.  
Co-requisite: SS 215, SS 217  
Students will examine the role of the social service worker in relation to field placement expectations. Policies, processes, roles, responsibilities and expectations will be examined and discussed. Values, ethics and guiding principles will be explored in classroom exercises and assignments. Students will be required to participate in volunteer work as part of the preparation process for fieldwork and in order to complete required assignments for this course.

### SS 300 SOCIAL SERVICES SEMINAR II
45 Credit Hours  
Prerequisite: Successful completion of Semester’s 1, 2 and 3.  
Co-requisite: SS451 and SS420  
This course will assist the student to further integrate theory and practice related to their fieldwork placement. Specific issues and concerns, on both a personal and professional level, will be explored and discussed. Students will learn how to design, facilitate and evaluate a program for a specific target group. Students will engage in activities to prepare them for employment including the development of a career portfolio.
Course Descriptions

SS 320
SOCIAL SERVICE METHODS I
45 Credit Hours
Prerequisite: Completion of Semester 2
Co-requisite: SS 200, SS 350
This course is the first of two courses in the social services practices sequence. The student will use this core knowledge to thoroughly understand the phases of the planned change process, and to apply the various techniques and guidelines associated with each phase. The student will be able to apply crisis intervention techniques to suicide prevention and other crises. The student will learn to use social systems theory as a foundation for social work assessment, intervention and evaluation. The student will learn to apply person-centered counselling techniques and motivational interviewing skills.

SS 350
FIELD PLACEMENT I
315 Credit Hours
Prerequisite: Successful completion of Semester 2 or entry into the accelerated program.
Co-requisite: SS 200, SS 320
This course is the first field experience which enables the student to begin to integrate theory and practice, in practical helping situations. The student is assigned to work in a social service-related agency for 3 days per week for the full semester. The positive use of “self” is stressed, within the context of social service values and ethics. She/he is guided and evaluated in this learning experience by an agency supervisor and a faculty supervisor, who work together to provide a positive learning experience for the student.

SS 420
SOCIAL SERVICES METHODS II
45 Credit Hours
Prerequisite: Completion of Semester 3
Co-requisite: SS300, SS451
This course builds on SS 320 Social Service Methods I. The student will learn to apply cognitive behavioural techniques and solution focused problem solving techniques.

SS 451
FIELD PLACEMENT II
420 Credit Hours
Prerequisite: Successful completion of Semester 3.
Co-requisite: SS 300, SS 420
This course is the second field experience for the student, which gives further opportunity to integrate knowledge, values and skills in a practical social service-related environment. The student is assigned to work within an agency 4 days per week, for the full semester. Relationships with clients and skills demonstrated will be deeper and broader than the first placement, as the student shows the ability to relate to a variety of clients and/or client groups. The student will demonstrate positive functioning as part of the social services team. Plans for future professional growth will be explored.

ST 110
STATICS I
45 Credit Hours
Prerequisite: Program Admission Requirements
Introductory course in structural mechanics. The course begins with a study of systems of units used in the Architectural and Civil Engineering fields. It then moves on to introduce the Mathematical techniques needed to analyze forces as vectors. Finally, students will learn how to determine the forces acting on simple structures in static equilibrium.

ST 204
STATICS II
45 Credit Hours
Prerequisite: ST 110
In this second course in structural mechanics, students will build on their fundamental skills to solve for reactions and analyze internal forces in simple structures such as trusses and beams. They will then be introduced to the typical forces and factors applied to structures in Limit States Design. The course will wrap up with the study of tributary areas and the transfer of loads through a structure.

ST 310
STRENGTH OF MATERIALS
45 Credit Hours
Prerequisite: Successful completion of semesters 1 & 2.
This course introduces students to the internal effect of systems of forces acting on rigid bodies and is a prerequisite course for further studies in structural design. It includes demonstration labs investigating the stresses and strains on wood, steel, aluminium and concrete during strength testing.

ST 404
STRUCTURAL ANALYSIS
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, & 3.
This course is an extension of course Statics II and ST 310. It deals with the analysis of deflections and indeterminate structures. Several classical methods of analysis are studied. The students are then introduced to the structural analysis computer programs.

ST 420
STRUCTURAL DESIGN (CONCRETE)
45 Credit Hours
Prerequisite: ST 310
Students will learn the theory of reinforced concrete’s behaviour. They will learn to design flexural members including beams and one way slabs footings and walls. Design is in accordance with CSA CAN3 A23.3M. Students will be introduced to cutting edge technologies in the reinforcement and retrofitting of concrete structures.

ST 425
STRUCTURAL DESIGN (STEEL)
45 Credit Hours
Prerequisite: ST 210, ST 310/TM 312
This introductory course in structural steel design introduces the students to structural steel products, and basic structural steel design in accordance with the requirements of CAN/CSA-S16.1 M “Limit States Design of Steel Structures”. Topics will include steel and composite beams, columns and tension members.

ST 505
STRUCTURAL DESIGN AND INSPECTION
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
The focus of this course is the design, detailing and inspection of steel and concrete connections. The course will focus on the design of bearing connections for steel and issues of anchorage, bond and development length for concrete. Through these design efforts and consideration of construction tolerances, the student will be prepared for a position involving the inspection of steel and concrete construction.

ST 507
WOOD DESIGN
45 Credit Hours
Prerequisite: Successful completion of semesters 1, 2, 3, & 4.
This course will introduce the student to the Limit States Design approach to wood structures. It will cover the design of members in bending, tension, compression and combined bending and compression.
### Course Descriptions

#### ST 628
**STRUCTURAL PROJECT**
45 Credit Hours  
Prerequisite: Successful completion of semesters 1, 2, 3, 4 & 5.  
In this course students will use the knowledge gained in previously taken and concurrent structural design and analysis courses to design and prepare working drawings and shop drawings for a small structure.

#### SY 066
**CONTEMPORARY COMMUNITY & FAMILY: THE ABORIGINAL CONTEXT**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course provides students with an introduction to contemporary issues within Aboriginal families and communities in Northwestern Ontario (NWO) and Canada. Students will examine traditional and contemporary representations of Indigenous cultures. They will investigate the unique socio-political relationships between Canada and Aboriginal peoples with an emphasis on the colonial, legal and political histories. In examining the contributions, challenges and aspirations of Aboriginal families and communities, students will be encouraged to reflect on their own cultural expression and experience in NWO.

#### SY 125
*(OL equivalency: OL265)*
**INTRODUCTION TO SOCIOLOGY**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is an introductory exploration of sociology, research, the sociological perspective and basic sociological concepts. Major sociological theories will be explored and applied to current sociological events and used as a lens to examine a variety of topics including: socialization, the family, gender, sexuality, culture, inequality, deviance, minority populations, environment and globalization.

#### SY 126
**THE SOCIOLOGY OF POP CULTURE**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
We are living in a society in which we are continually bombarded with information from a variety or popular media: popular music, television, films, magazines, books, and the Internet. The messages we receive are often very subtle, yet powerful and can shape the way we think, feel and behave both collectively and individually. In this course, students will explore the ways in which they are socialized and how their self-concepts develop. They will also use a variety of strategies to critically analyze the impact of the popular media on Canadian society and on their personal sense of who they are.

#### SY 130
**GENDER, SOCIETY AND CHANGE**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course introduces the student to the sociology of gender. The study of gender looks beyond biological sex to the socio-cultural context. Gender is socially constructed, operates on many dimensions within society, and impacts all areas of modern life—whether personal, social, economic or political. The course will examine changes affecting the lives of women and men, and will scrutinize areas of pressure in various social institutions of society. It will examine how men and women are rewriting their traditional social scripts and finding solutions to current-day problems and gender issues. Students will gain the knowledge, skills and attitudes to examine gender in Canada. Through enhanced awareness and understanding they will be empowered to pursue their career and life goals as better informed citizens, skilled in gender communications and relationships. They will be able to engage in active gender analysis of societal institutions and to contribute to the betterment of others’ lives.

#### SY 180
**EXPLORING HUMAN DIVERSITY**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will focus on developing an informed awareness, knowledge and appreciation of human diversity in the Canadian context. Students will explore contemporary issues facing all Canadians with an emphasis on Aboriginal issues in Northwestern Ontario. As members of Canadian society, students will develop a heightened awareness of the challenges, myths and issues related to their personal value systems.

#### SY 222
**THE FAMILY; PAST, PRESENT AND FUTURE**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The goal of this course is to provide timely, practical information needed by students to examine their assumptions and values concerning intimate relationships, marriages and families in a meaningful way. Students will be given an opportunity to examine the roles they pay in intimate partnerships and family life. This will enable students to make informed choices when it comes to thinking about the diversity and strengths of the intimate, marital and familial relationships in their lives.

#### TA 100
**DISCOVER NORTH AMERICA**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will study the physical geography of our local area, as well as the physical and cultural aspects of geography and significant tourist attractions of Canada, United States and Mexico from a travel industry perspective. Studies will also include National Parks and the latest in adventure/eco destinations and activities.

#### TA 101
*(OL equivalency: OL650)*
**DIMENSIONS OF THE TOURISM INDUSTRY**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will explore the 8 sectors of the tourism industry through classroom instruction, site visits, and guest speakers from a number of the sectors. Other integral components of the course include the study of tourism industry associations, leisure & recreation tourism, event planning and channels of distribution between supplier and consumer. Tourism is Canada’s fastest creator of new employment opportunities.

#### TA 103
**GROUP DYNAMIC FOR LEADERSHIP IN TOURISM ACTIVITIES**
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course explores theoretical and applied study of the interactions between individuals within groups in general, tourism, and outdoor settings. A variety of approaches will be used to examine such topics as group types, formation, motivation, and patterns of behaviours as well as conflict resolution, problem solving, leadership, and communication. Students will work to develop effective group interaction and leadership skills that are practical for both traditional and outdoor adventure tourism settings.
TA 104  
INDUSTRY CERTIFICATIONS  
45 Credit Hours  
Prerequisite: As stated by the delivering agency  
This program has been designed to meet the increasing need for qualified specialists in many facets of the transportation and global outdoor adventure industry. It is the program’s intent that students acquire, with faculty advice, and at their own expense and time, to obtain a minimum of three certifications in either the Inbound Tourism Sector or the Outbound Tourism Sector. One certification must be earned through the Orientation Canoe trip.

TA 107  
CREATING SERVICE EXCELLENCE  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course will provide students with a broad perspective from which to explore and analyze service as a primary product. The dynamics of selling techniques through customer service skills and tools will provide students with an understanding of their importance when selling Canadian travel products. The growth of the tourism industry has created a very competitive market in which strong selling skills are vital and heightened consumer awareness has created a need for consistent superior service. The students will be introduced to CITC (Canadian Institute of Travel Counsellors) which is an organization that advances the professional development of travel counsellors and promotes national industry designations. This course also provides the opportunity for the student to work towards achieving the Ontario Tourism Education Corporation (OTEC) Service Excellence Certification.

TA 108  
BASIC ACCOUNTING APPLICATIONS  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is an introduction to accounting. Students will examine the topics of recording and summarizing transactions, preparing adjusting and closing entries, and preparing financial statements.

TA 200  
DISCOVER EUROPE AND ASIA  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will study the physical and cultural aspects of geography of Eastern and Western Europe, Middle East and Asia. Studies will also include significant tourist attractions, major international airports, international time zones, and travel motivators from a travel industry perspective.

TA 202  
AIR TRAVEL ORIENTATION I  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will be introduced to the first segment of the transportation sector, the Airline Industry. This course familiarizes the student with the fundamentals of itinerary planning for Domestic travel, using the Galileo Canada computer reservation system. The student will gain experience in creating reservations and accessing all types of relevant information required by a client to travel by air.

TA 204  
CO-OP WORK PLACEMENT  
480 Credit Hours  
Prerequisite: Program Admission Requirements  
Cooperative Education is a learning method which formally integrates academic study with work experience in a cooperating employer organization. This ‘hands-on’ exposure affords the student the opportunity to develop skills in the application of theory to practical work experience and network with business personnel and entrepreneurs. This placement is a mandatory component of the program and will occur over a time period of 16 employer work weeks, which will take place from May to August in between the 1st and 2nd year of the program. Each employer work week constitutes a 30-hour credit. Thus, the student will work sixteen employer work weeks to achieve the 480-hour credit of the course.

TA 206  
MARINE AND LAND TOURS I  
45 Credit Hours  
Prerequisite: None  
The student will learn terminology, components and categories of tours and charters. This section of Marine and Land will focus on marine transportation including cruises, as well as sun package holidays and resorts. Standard references and brochures are explored as sources of product knowledge. The student will also learn to interpret travel insurance rate guides and compute premiums for the leisure traveler. This course includes examinations for specialist certifications from Marriott Hotels and Carnival Cruise Lines. The Travel Industry Act, 2002 is studied in depth. Each person selling or providing travel advice to the public must pass a provincial examination. The examination is part of the course.

TA 210  
SUSTAINABLE TOURISM DEVELOPMENT  
45 Credit Hours  
Prerequisite: None  
The growth of worldwide tourism has created opportunities and challenges for established and emerging tourism destinations. The course looks at how to conduct a tourism assessment to examine tourism potential and how to measure the potential cost and benefits of a tourism development program. It examines how destinations have improved competitiveness by creating environmentally friendly tourism products and services. The course emphasizes establishing policies and management plans to identify and reduce the environmental impact created by tourism facilities.

TA 218  
PARKS AND HERITAGE INTERPRETATION  
45 Credit Hours  
Prerequisite: None  
This practical, hands-on course will provide students with the skills and knowledge required by front-line heritage and park interpreters, outdoor educators, and wilderness interpretive guides working in the ecotourism (and mainstream tourism) industry. This course is based on national standards set by industry from organizations such as Parks Canada, Ontario Parks, BC Parks, and Interpretation Canada. Students will have the opportunity to explore Personal and Self-Guided Interpretative programming through the use of in-class lectures and presentations as well as a number of field trips to locally significant interpretative areas such as Fort William Historical Park and the Thunder Bay Museum.

TA 300  
DISCOVER CENTRAL AND SOUTH AMERICA  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
The student will study the physical and cultural aspects of geography of Central and South America and the islands of the Caribbean. Studies will also include significant tourist attractions, major international airports, international time zones, and travel motivators from a travel industry perspective.
opportunities in the area of tour conducting from a world-wide perspective. Career and car rental bookings. Selling features, to perform functions of Via Rail ticketing information for the International traveler. procedures, and current travel advisory visas), immunizations, custom/immigration documentation information (passports and They will learn how to access required for ticket refunds and ticket exchanges. well as processing administration forms to provide the student with the complex knowledge and skills for effective International Fare Construction. The Internet is an integral part of the business and learning environment, therefore the student will learn to understand techniques for browsing and searching for travel information. The student will also be introduced to functions and responsibilities of an airline Customer Service Agent and airline Flight Attendant.

TA 402 AIR TRAVEL ORIENTATION III
45 Credit Hours
Prerequisite: TA 202, TA 302
The final chapter of Air Travel Orientation will encompass a variety of air travel procedures such as industry service fees, baggage regulations, and familiarization trips, etc. The course is also designed to provide the student with the complex knowledge and skills for effective International Fare Construction. The Internet is an integral part of the business and learning environment, therefore the student will learn to understand techniques for browsing and searching for travel information. The student will also be introduced to functions and responsibilities of an airline Customer Service Agent and airline Flight Attendant.

TA 407 THE BUSINESS OF AN OUTDOOR ENTERPRISE
45 Credit Hours
Prerequisite: Program Admission Requirements
This course will focus on the designing and planning of an outdoor adventure enterprise. Emphasis will be placed on the development
TE 101 FUNDAMENTALS OF EDUCATIONAL ASSISTING
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: TE 107
This course will introduce students to the goals and philosophy of education to determine how the role of the educational assistant has developed. Types of administrative policies, legal responsibilities, and professional conduct will be identified as students explore the role and duties of an assistant. Students will practice effective communication and conflict resolution strategies including how to set appropriate personal and professional boundaries. Students will compile a portfolio as they complete the school field placement orientation process.

TE 107 EDUCATIONAL PROGRAMMING I: INTRODUCTION
45 Credit Hours
Prerequisite: Program Admission Requirements
Co-requisite: TE 101, TE 110
This course introduces students to basic programming techniques. Students will apply educational philosophy and theories (learning, development, learning styles, and multiple intelligences) to the learning process. Students will implement basic student instructional, questioning, and feedback techniques. Through hands-on activities, students will develop creativity and problem-solving skills. Students will demonstrate basic assisting skills by adapting activities and environments to the needs of the learner.

TE 106 FIELD PLACEMENT
105 Credit Hours
Prerequisite: Meet all requirements of Semester I.
Co-requisite: TE 216, TE 217, TE 218, TE 223
Students will spend one full day each week in a pre-arranged placement setting. This placement, in an elementary or high school, provides the students with the opportunity to become familiar with the educational setting from the point of view of an educator, practice skills learned in the classroom, and put theory into practice. Students are expected to complete the competencies outlined in their Field Placement Resource Package. Students must meet requirements of the program before a placement will be arranged.

TE 216 CHILD DEVELOPMENT II: THE SCHOOL YEARS
45 Credit Hours
Prerequisite: TE 101, TE 107, TE 110,
Co-requisite: TE 217, TE 218
Students will study principles of development as they pertain to children and adolescents (age 6-20). The theories of Piaget, Vygotsky, Erikson, Kohlberg, and others will be explored in relation to physical, cognitive and social/emotional development. Genetic, environmental, and cultural factors will be considered. Students will explore children’s understanding, as well as develop skills to assist themselves and children, in dealing with loss, death and dying. The students will apply knowledge of development in order to assist appropriately in an educational setting.

TE 218 EDUCATIONAL PROGRAMMING II: INSTRUCTIONAL METHODS
45 Credit Hours
Prerequisite: TE 101, TE 107
Co-requisite: TE 206, TE 216, TE 217, TE 223
This hands-on course will further develop the skills introduced in Educational Programming I. Students will learn and implement a variety of instructional methods. They will implement strategies to adapt lessons, situations, and environments for individuals with special needs. Students will learn basic strategies to gain compliance and to organize tasks and materials for themselves and their learner.

TE 221 OBSERVATION AND RECORDKEEPING
45 Credit Hours
Prerequisite: TE 101
Co-requisite: TE 206, TE 216, TE 217, TE 223
Strong observational skills are required for Educational Assistants. This course will focus on observing children and adolescents within the educational setting. Students will learn to observe, record, and interpret data. Students will learn to complete and interpret the many types of reports and records used by educators. They will learn the protocol for recording, reporting, and handling confidential information.
**Course Descriptions**

**TE 222  
EDUCATIONAL TECHNOLOGY AND RESEARCH**

45 Credit Hours  
Prerequisite: TE 101, TE 107, HS 118  
Co-requisite: TE 217, TE 218  
Educational Technology and Research is a course designed for students in the Educational Assistant Program. Extensive use of the Internet for research and as a teaching tool is a major component of this course. Students will design a classroom activity and present it using presentation software. Using a hands-on approach, students will learn to implement adaptive strategies and become familiar with special needs software programs such as: Dragon Speak, (speech to text software) Write Out Loud and Read Please (text to speech software).

**TE 223  
FIELD PLACEMENT SEMINAR I**

15 Credit Hours  
Prerequisite: Meet all requirements of Semester I  
Co-requisite: TE 206  
This course offers opportunities for discussion and direct instruction related to field placement and issues related to work in school settings (the EA role, professionalism, integration/inclusion, cultural diversity, ethics, legalities, and advocacy). There also will be opportunities for students to share experiences and concerns related to their involvement with placement staff and students. Learning is enhanced by the sharing of student experiences.

**TE 313  
BASIC PHARMACOLOGY AND PERSONAL CARE**

45 Credit Hours  
Prerequisite: TE 216, TE 217, TE 221  
Co-requisite: TE 315  
The basic responsibility of safe drug administration and control will be emphasized as well as monitoring of prescribed drugs and their expected therapeutic effects. Students will examine the use and misuse of non-prescription and prescription substances. Students will also be familiarized with procedures in personal care.

**TE 314  
BEHAVIOUR/COGNITIVE INTERVENTIONS**

45 Credit Hours  
Prerequisite: TE 206, TE 216, TE 217, TE 221  
Co-requisite: TE 313, TE 315  
Educational Assistants are likely to encounter learners who have a range of behavioral difficulties. This course focuses on positive approaches to managing student behaviour. Students will examine how a variety of techniques can be used to change behaviour and attitudes to promote a learner’s growth and mental health. Students will begin to build a personal system of discipline. Students will learn the skills and techniques to respond to daily discipline situations. They will learn their role in carrying out behavioural management plans and the procedures and responsibilities in crisis prevention and intervention.

**TE 315  
EXCEPTIONALITIES II**

45 Credit Hours  
Prerequisite: TE 216, TE 217, TE 221  
Co-requisite: TE 313, TE 314  
This course focuses on the child with exceptionalities. Causes, symptoms, treatments and interventions will be explored for behaviour disorders, Alcohol Related Neurological Disorders (FAE, FAS), ADHD, Communication Disorders, Learning Disabilities and Autism Spectrum Disorders (Aspergers, Autism) as well as other exceptionalities. There is special emphasis on practical remedial techniques and accommodations. Students will learn the importance of research and continued professional development to remain current in the field.

**TE 316  
EDUCATIONAL PROGRAMMING III: MATH AND LANGUAGE**

45 Credit Hours  
Prerequisite: TE 216, TE 218  
Co-requisite: TE 206  
In this hands-on math and language course, educational assistant students will learn how to plan and implement rich tasks in math and language programs. They will apply constructivist theory to plan a math experience and design appropriate probing questions. Other tasks include the use of manipulatives. Students will learn the components of a balanced literacy program and evaluate high interest – low vocabulary literature. Students will implement reading strategies at various developmental levels.

**TE 317  
CHILD ABUSE AND CRISIS INTERVENTION**

45 Credit Hours  
Prerequisite: TE 101, TE 216, TE 217, TE 221  
Co-requisite: TE 315  
In this course, students will examine the responsibilities of educational assistants in dealing with child abuse and crisis situations. Students will learn to identify indicators of abuse as well as how to report and record appropriately following policy and legislation. Students will learn the steps in the investigation process. Symptoms of crisis, steps of crisis intervention and access and use of appropriate resources will be discussed. Throughout the course, issues of personal self-awareness will be emphasized so that the students may anticipate their reactions to these situations and be prepared to cope with them in a professional manner.

**TE 405  
FIELD PLACEMENT SEMINAR II**

45 Credit Hours  
Prerequisite: Meet all requirements of Semester I - Semester III  
Co-requisite: TE 414  
Field Placement Seminar II is a designated time for discussion and direct instruction related to field placement. Students will identify and explore relevant placement issues as well as review specific expectations and competencies each week. This course will assist the student to integrate theory and practice. Students will set, refine, and implement learning goals specific for their placement setting. This course also prepares the student for job search. Letters of application, resumes, professional portfolios, and interview techniques will be covered.

**TE 414  
FIELD PLACEMENT II**

420 Credit Hours  
Prerequisite: Meet all requirements of Semester I - Semester III  
Co-requisite: TM 405  
Students will spend four full days each week in a pre-arranged placement setting. This placement, in an elementary or high school, provides the student with the opportunity to demonstrate the necessary knowledge, skills, and attitudes which will enable him/her to work competently as an educational assistant. Students are expected to complete the competencies outlined in their Field Placement Resource Package. Students must meet requirements of the program before a placement will be arranged.

**TM 107  
PHYSICAL SCIENCE FOR AEROSPACE & MECHANICAL ENGINEERING**

48 Credit Hours  
Prerequisite: Program Admission Requirements  
This course introduces the student to various concepts of physics as related to Aerospace Engineering and Mechanical Engineering. The student will be introduced to Newton’s laws of motion, vectors, material properties, fluid properties, electrical fundamentals and laboratory test equipment used to measure the results of related experiments.
Course Descriptions

TM 111 GRAPHICS COMMUNICATION 1
48 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to the fundamentals of technical drawing. Sketching techniques, applied geometry, orthographic projection, drawing layout, sections/conventions along with dimensioning principles will be used to produce hand drawn sketches and simple working drawings for the manufacturing workplace.

TM 121 METAL FABRICATION METHODS
48 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to basic workshop skills and sheet metal fabrication. Shop safety, blue print reading, layout techniques, materials handling and processing, use of hand tools, compilation of work orders and simple process plans will be topics of focus.

TM 136 MACHINE SHOP 1
64 Credit Hours
Prerequisite: Program Admission Requirements
This course introduces the student to measuring instruments, hand tools and powered machine tools commonly found in a machine shop.

TM 207 STATICS
48 Credit Hours
Prerequisite: MA131 Co-requisite: MA231
This course provides an introduction to the solution of force systems that act on rigid bodies.

TM 211 GRAPHICS COMMUNICATIONS II
48 Credit Hours
Prerequisite: TM 111
This course introduces the student to the more advanced principles and techniques of Technical Drawing. The use of advanced Dimensioning and Tolerancing Principles, Limits and Fits, Auxiliary Views, Welding Conventions, Thread Conventions and GD&T will be used to compile detail and working drawings.

TM 221 AIRCRAFT ASSEMBLY METHODS 1
48 Credit Hours
Prerequisite: TM 121 Co-requisite: N/A
This course introduces the student to intermediate level fabrication and assembly procedures for Sheet Metal components using Aircraft Standards. Topics of focus include an introduction to Assembly Tooling, the use of advanced Material Processing techniques, and Process Planning Procedures using the computer as a tool.

TM 236 MACHINE SHOP 2
48 Credit Hours
Prerequisite: TM 136
This course continues to improve the student’s understanding and skill in the use of powered machine shop equipment, including lathes, milling machines, drilling machines and grinding machines.

TM 241 COMPUTER AIDED DESIGN (CATIA)
48 Credit Hours
Prerequisite: Program Admission Requirements
This course provides an introduction to Catia Cad/Cam software that will be used to develop computerized solid models, part assemblies and engineering drawings as used in the Aerospace and Manufacturing industries.

TM 313 STRENGTH OF MATERIALS
48 Credit Hours
Prerequisite: TM 207
This course will introduce the student to the effect of forces acting on rigid bodies and the bodies’ ability to resist these forces. Students will examine various structural members and jointed connections to determine their applicable strength characteristics.

TM 321 AIRCRAFT ASSEMBLY METHODS 2
64 Credit Hours
Prerequisite: TM 221
This course introduces the student to the more advanced Fabrication, Assembly and Planning procedures for aircraft components. Working in teams, students will focus on Advanced Assembly Processes, Advanced Tooling Processes, Change Management principles and Configuration Control.

TM 333 CHEMISTRY OF METALS, POLYMERS AND CERAMICS
48 Credit Hours
Prerequisite: Successful completion of semester two Co-requisite: N/A
This introductory chemistry course introduces the student to the periodic table, chemical bonding and molecular structure as an aid to explaining the composition and behaviour of metals, polymers and ceramics used in the aerospace industry.

TM 336 CNC MACHINES AND METAL CUTTING THEORY
48 Credit Hours
Prerequisite: TM 221 Co-requisite: N/A
This course is an introduction to CNC machines and manual programming techniques. Metal cutting theory including cutting forces, machining power requirements and control of surface finish will be studied.

TM 346 JOINING PROCESSES
48 Credit Hours
Prerequisite: TM 211
This course introduces the student to the wide spectrum of Joining Processes used in manufacturing. Gathering Information for process selection and presenting a case by case study of joining processes for specific applications will be the focus.

TM 347 TOOL DESIGN 1
48 Credit Hours
Prerequisite: TM 211 and TM 241
This course introduces the student to the basic principles and applications of Tool Design. Using 3D CAD drafting (CATIA™) students will focus on designing simple Jigs and Fixtures for the manufacturing workplace. Estimating Tool Cost, Locating, Supporting and Clamping along with Jig and Fixture construction principles will be topics of focus.

TM 436 CNC PROGRAMMING
48 Credit Hours
Prerequisite: TM 336
This course is an introduction to computer aided CNC programming. Complex tool paths will be created with the aid of CAD/Cam software including CATIA machinist and ICAM CNC post processor.
Course Descriptions

TM 443 MANUFACTURING PROCESSES
48 Credit Hours
Prerequisite: TM 321 and TM 346
This course introduces the students to the wide spectrum of manufacturing processes. Students will focus on honing their research and presentation skills while gathering information needed for selection, proof and specification of materials and processes for product design and manufacture.

TM 447 TOOL DESIGN 2
48 Credit Hours
Prerequisite: TM 347 and TM 241
This course will introduce the student to the more advanced principles and applications of Tool Design. Using 3D CAD drafting (CATIA™) students will focus on designing the more advanced tools used for manufacturing. Welding jigs and fixtures, progressive pierce blank and form dies, large assembly fixturing and master modeling will be topics of focus, along with more advanced economic evaluations of tooling.

TM 452 METALLURGY AND MATERIAL TESTING
48 Credit Hours
Prerequisite: TM 313 and TM 333
The students will continue a study of metallic materials. The emphasis is placed on those materials used in the aerospace industry, properties, treatment and testing of light alloys and exotic material. Students are also introduced to quality control and inspection techniques as applied to the exacting requirements of the aerospace industry. Students will focus on the hands-on use of inspection principles including destructive and non-destructive testing (NDT) equipment.

TM 453 COMPOSITES 1
48 Credit Hours
Prerequisite: TM 321
This course will expose the student to an overview of the manufacture of non-metallic structures. A basic understanding of composite materials technology, fiber/resin properties, lay-up and cure procedures, tooling concepts, process planning and materials handling concepts for advanced composite components and structures will be the focus.

TM 526 MACHINE DESIGN
48 Credit Hours
Prerequisite: Successful completion of Aerospace Manufacturing Engineering Technician program
This course will utilize the principles of strength of materials and beam theory to design machine elements, structures and components common to the aerospace manufacturing industry. Topics will include three dimensional force system analysis, beam and column design, combined stresses, static and dynamic friction analysis and machine efficiency.

TM 527 INTRODUCTION TO OPERATIONS MANAGEMENT
48 Credit Hours
Prerequisite: Successful completion of Aerospace Manufacturing Engineering Technician program
Co-requisite: TM 443
This course focuses on all aspects of careful management of the processes used to produce and distribute products and services. It will examine the concepts and techniques used to solve complex problems in areas such as inventory management, forecasting, and project management. This course includes substantial analysis of internal processes to determine efficiency and effectiveness of the management process.

TM 531 FLUID MECHANICS
48 Credit Hours
Prerequisite: Successful completion of the Aerospace Manufacturing Engineering Technician program
This course will introduce the student to static and dynamic fluid properties. Pascal’s law, Bernoulli’s principle, Reynolds number and other concepts will be introduced. Simple industrial fluid power circuits using hydraulics and pneumatics will be designed in class and then tested in a laboratory setting.

TM 532 ADVANCED MATERIALS
48 Credit Hours
Prerequisite: TM 452
The objective of this course is to familiarize students with various types of engineering alloys and their application in the aerospace industry, so that they will be able to make better decisions for materials selection for engineering designs. The course will also provide some understanding of metallurgical structures, various heat treatment processes and how they relate to mechanical properties of alloys.

TM 535 STATISTICAL PROCESS CONTROL
48 Credit Hours
Prerequisite: Successful completion of the Aerospace Manufacturing Engineering Technician program
This course introduces fundamental concepts of statistical process control and the application of these concepts to issues arising in the Aerospace industry. It examines the practical application of quality principles. Emphasis is placed on the interpretation, understanding and use of quality principles and concepts throughout the problem solving process.

TM 626 AUTOMATED SYSTEMS DESIGN
64 Credit Hours
Prerequisite: TM 526
This course builds on the engineering and design skills acquired in earlier courses. Students will apply sound design concepts to design a working automatic system that will meet prescribed performance criteria. Hands-on lab work will reinforce the concepts presented in class. Team work is emphasized.

TM 628 APPLIED OPERATIONS MANAGEMENT
48 Credit Hours
Prerequisite: TM 527
Operations Management is responsible for orchestrating all resources needed to the final product. This includes designing the product, deciding what resources are needed, arranging schedules, equipment and facilities, designing the jobs to make the product and designing the work methods. Basically, operations management is responsible for all aspects of the process of transforming inputs into outputs. This course introduces the concepts of operations management and the application of these concepts to the issues arising in the aerospace industry.
**Course Descriptions**

**TM 651**  
**APPLIED PROJECT**  
32 Credit Hours  
Prerequisite: Successful completion of the Aerospace Manufacturing Engineering Technician program.  
The course introduces the students to relevant topics, not necessarily covered in the program, through independent research and study. The course is also aimed at improving the student’s written and oral communication skills, research skills, and project management skills.

**TM 653**  
**COMPOSITES 2**  
48 Credit Hours  
Prerequisite: TM 453  
This course will expand on the skills attained in TM 453, Introduction to Composites.  
Utilizing concepts learned in Computer Aided Design and Introductory Composites, the student will design, build and test suitable composite structures in a team/laboratory setting. Industry standard materials and procedures will be used to complete the project work.

**TP 131**  
**COMMUNICATIONS I**  
45 Credit Hours  
Prerequisite: Basic Keyboarding Skills  
In this course, students will reinforce English language skills through a co-ordinated program of listening, speaking, reading, and writing. The students will place special emphasis on the development of skills necessary for effective communications in the various fields of technology or trades and will use microcomputers for writing assignments.

**TP 150**  
**TECHNOLOGICAL STUDIES I**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to introduce the students to a variety of architecture/civil/environmental/forestry. Through a combination of the study of introductory theory and practical experience, the student will gain the background necessary to proceed with further study of technical content.

**TP 155**  
**TECHNOLOGICAL STUDIES II**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course is designed to introduce the students to a variety of trade related skills. Through a combination of the study of introductory theory and practical experience, the student will gain the background necessary to proceed with further study of technical content.

**TP 236**  
**WRITING STRATEGIES – COMMUNICATIONS II**  
60 Credit Hours  
Prerequisite: TP 131  
This course is designed to provide the Pre-Technology/Pre-Skills learner with the fundamental written communication skills required in the workplace today. The learner studies the process of communication with its inherent problems, strategies to overcome these problems, planning techniques, basic and specialized writing skills required for effective writing such as defining, outlining, summarizing, and developing persuasive arguments. The learner will also be introduced to writing research reports.

**TP 250**  
**TECHNOLOGICAL STUDIES III**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This program is designated to introduce the student to basic electronics. Any person(s) considering entering today’s technical work field should have a broad knowledge of related areas and overlapping practices. This knowledge will assist them in guiding their future studies and will enable them to choose and be fully aware of there career choices and objectives.

**TP 255**  
**TECHNOLOGICAL STUDIES IV**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This program is designated to introduce the student to mechanical/manufacturing. Any person(s) considering entering today’s technical work field should have a broad knowledge of related areas and overlapping practices. This knowledge will assist them in guiding their future studies and will enable them to choose and be fully aware of there career choices and objectives.

**WC 121**  
**OXY-ACETYLENE WELDING**  
30 Credit Hours  
Prerequisite: Program Admission Requirements  
This course introduces students to the safe handling and use of potentially dangerous equipment. The student gains an understanding of the construction, operating principles, application of oxy-acetylene welding and cutting equipment. Correct operating techniques in fusion welding, brazing and cutting will be achieved.

**WC 122**  
**BASIC ARC WELDING**  
90 Credit Hours  
Prerequisite: Program Admission Requirements  
This course exposes the students to the basic theory and practice of arc welding. The course covers safe use and care of equipment, various joints and weld types in all positions. Electrode application and classification is explained and practical welding exercises are performed.

**WC 126**  
**T-JOINTS**  
75 Credit Hours  
Prerequisite: Program Admission Requirements  
In this course, the student will identify the different welding procedures for T-joints in flat, horizontal, vertical and overhead positions. Welding exercises are demonstrated using 6010-11 and 7018 electrodes in these positions and specific safety precautions for overhead welding are addressed.

**WC 127**  
**BLUEPRINT READING**  
45 Credit Hours  
Prerequisite: Program Admission Requirements  
This course identifies and interprets all line types and distinguishes sectional and auxiliary views. The student will be able to interpret welding symbols, abbreviations, notes, dimensioning techniques, conduct practical exercises in component sketching, reading weldment blueprints.

**WC 128**  
**PIPE TO PLATE**  
60 Credit Hours  
Prerequisite: Program Admission Requirements  
This course has 2 main objectives, the first to develop downhand techniques and practices using 6010 and 6013 electrodes. The second is to develop uphand techniques using the pipe to plate exercises.
WC 212
PRESSURE PLATE
75 Credit Hours
Prerequisite: Program Admission Requirements
This course identifies the different welding procedures and techniques for pressure plate welding using 6010 and 7018 electrodes in all positions. Visual weld checking techniques and testing procedures are also demonstrated.

WC 215
WORK PRACTICES
30 Credit Hours
Prerequisite: Successful Completion of Semester 1
This course introduces students to accident prevention: the function and safe use of hand and portable power tools, measuring tools, and large stationary equipment. Students will also interpret the Occupational Health and Safety Act and identifies environmental considerations, work area, cleanliness, welding safety precautions and personal protection.

WC 217
BASIC METALLURGY
15 Credit Hours
Prerequisite: WC 122
This course identifies the different chemical and physical properties of ferrous and non-ferrous materials, demonstrates the effects of welding on lose material structures, defines the material classification system and discusses weldment distortion and control techniques.

WC 224
PATTERN DEVELOPMENT
45 Credit Hours
Prerequisite: WC 127, IX 110
This course distinguishes between parallel line, radial line and triangulation theories and selects procedures and techniques for various component development. Other areas include development of elbows, laterals and various square and cylindrical intersecting offset components.

WC 225
SHOP FITTING
30 Credit Hours
Prerequisite: Successful Completion of Semester 1
In this course, students will apply safe operating procedures for heavy metal working equipment, perform structural steel layout, sheet and plate steel fabrication techniques and exercises.

WC 226
ARC WELDING C.W.B. SPECIFICATIONS
60 Credit Hours
Prerequisite: WC 122, WC 128
This course defines C.W.B. welding specifications and describes procedures and techniques using 7018 electrodes. Visual weld checking techniques and testing procedures are also demonstrated.

WC 301
ADVANCED WELDING
44 Credit Hours
Prerequisite: Successful completion of Semesters 1 & 2
This course exposes the student to the basic theory and practice of MIG and TIG welding. The course covers construction and operating principles, safety precautions, filler uses, shielding, gases, equipment set-up and operation as well as practical MIG welding exercises.
Whether you live in the area or are visiting Confederation College, you are welcome to stop in for a first hand look.

Learn more about our college community, service and special events we have to offer you. To book a campus tour, request more information or receive answers to your questions, please call or email our college today.

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Fast Facts

- Established in 1967, Confederation College serves an area exceeding 550,000 square kilometers.
- Campuses: Thunder Bay, Dryden, Fort Frances, Geraldton, Kenora, Marathon and Sioux Lookout
- Over 50 postsecondary diploma and certificate programs: Aboriginal Studies, Aviation, Business, Community Services, Health Sciences, Hospitality, Media Arts, Protective Services, Engineering, Technology and Trades, Graduate Programs.
- Approximately 4,000 full-time postsecondary students and 8,000 part-time students annually
- Over 30,000 Alumni
- Over 10 million in annual student loans
- Over 250,000 in annual scholarships and bursaries
- Services are provided by a workforce of 411 full-time and approximately 365 part-time employees.
- Operating budget: approximately $56 million
- Direct economic benefit to Northwestern Ontario of 560 million annually
- At least 1 out of every two adults (51%) in the campus communities received training and education at Confederation College.
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Thunder Bay Campus
1...............  Children & Family Centre
2........................Forestry Centre
3..............  McIntyre Trades Building
4.....................  Shuniah Building
5......................  Sibley Hall Residence
6..............................Fitness Centre
7.....................  Dorion Trades Building
8.............. Aviation Centre of Excellence