Keyano College is a Comprehensive Community Institution (CCI), located in the heart of the Alberta Oil Sands, Wood Buffalo Region. A thriving centre for economic development, innovation and sustainability, Keyano College is growing in accordance with the increasing demands of the Region, and is committed to facilitating growth and excellence in our workforce as well as improving the life of our community.

Whether it is through the introduction of new Canadians in our region, or, new programming to address existing and emerging needs, or, collaborating with the many organizations that make Wood Buffalo one of North America’s most intriguing and innovative communities, Keyano plays a role in the education of its residents, and the enrichment of the community where residents live, work and play.

Part of Keyano’s commitment to facilitating student education access and success is through the provision of programs and enrichment opportunities that respond to industry and community needs. Earlier this year, we celebrated the opening of our Oil Sands Power and Process Engineering Lab. It is a state-of-the-art facility that will increase the number of power engineers we are able to produce for the Region by a factor 4X. The Keyano Theatre also hosted a phenomenal run of Les Miserables, and our Keyano Huskies teams continued to be competitive in ACAC competition. Our Keyano Huskies teams in Basketball, Volleyball, Hockey and Futsal continue to be competitive at the ACAC and national level.

Keyano College is committed to serving the needs of its community. The courses our students take at Keyano are often the foundation of their career success, and the people they meet, including faculty, staff and other students, collectively participate in enriching their academic experience. I encourage you to read more about Keyano College, our programs and services and to get involved with the College. Whether you are seeking education and/or training as a career stepping stone, beginning a degree or professional designation, or taking courses that will enrich your life along the way, Keyano has earned a reputation for quality programs and instruction and delivery. Our student-focused approach fosters student success and employability. We look forward to being a valued partner in your future success.

Dr. Kevin F. Nagel
President & CEO

Keyano College is located in the economic epicenter of Canada and serves the region, providing a multitude of educational opportunities that align with career opportunities. Our post-secondary students have a choice of credentials to pursue, including diplomas, degrees, and trades credentials. In addition we provide access to other degrees through our university transfer pathways. We work with local industry to ensure we support them through the provision of graduates with the knowledge and skills they are looking for. We also have long-term partnerships with post-secondary institutions in Alberta that provide opportunities for students to either begin their post-secondary studies with us and transfer elsewhere, or to complete their degree requirements right here in Wood Buffalo.

Students come here to learn, and so our focus is on supporting them in their efforts. We assemble the right resources, including well-qualified and effective instructors, appropriate and up-to-date facilities and equipment used in labs, and other experiential learning opportunities. The right resources also include the services we provide to our students, including a well-provisioned library, counseling, learning software, SKILL centre, housing and much more.

We measure our success by the success of our students and graduates. We are here to serve their needs, and to work with them on their learning journey.

We look forward to working with you to realize your dreams.

Catherine Koch,
Vice President, Academic
Keyano College makes every effort to ensure accuracy in all College publications. However, if there is inconsistency with the information as published and that which resides in official College policy, the official College policy will prevail. Keyano College reserves the right to make changes in the information provided within this calendar without prior notice.

The programs of study listed in this calendar are available for the intake year for which the calendar applies. The College reserves the right to change the content or structure of a program of study, and all reasonable attempts will be made to notify active program students.

The College also reserves the right to update course content, prerequisites and co-requisites without prior notice. In addition, not every course listed in the calendar will be offered every year. The College reserves the right to implement new policies, regulations and procedures which may not be available at the time of publication.

The College will not be held responsible for any loss, damage or other expense in relation to any changes to information contained within this calendar.

Students are responsible for informing themselves on matters related to admission, program and graduation requirements and other academic matters including policies, regulations and procedures. Students are also responsible for ensuring the accuracy and completeness of their registration, and are strongly encouraged to consult with and to seek advice on academic and program planning matters from Program Chairs and Student Advisors.

By the act of applying to a program and/or registering into courses, each student agrees to be bound by the policies and procedures of the College.
INTRODUCTION

We are a Big Spirit community, and it shows in everything we do. Welcome to Keyano College, a comprehensive community college serving the people of north eastern Alberta nestled in the dynamic municipality of Wood Buffalo.

Based in Fort McMurray, the College was originally established as an Alberta Vocational Centre in 1965 to address the local training needs of the rapidly expanding oil sands industry. Since then, Keyano has grown into a modern College with three campuses and four learning centres serving over 3,000 full-time students annually.

Quality educational and training opportunities are available through four program divisions: School of Health, Wellness and Human Services, School of Arts, Science, Business and Education, School of Trades and Heavy Industrial, and School of Career and Education Access.

In addition to the full-time students it serves, Keyano College also specializes in Continuing Education and Corporate Services programs for industry and business in the Regional Municipality of Wood Buffalo, and serves over 14,000 community members annually through these initiatives.

The College continues to be a major hub of the community through the Keyano Theatre & Arts Centre, the Syncrude Sport & Wellness Centre, the Keyano College Library, as well as through the College's involvement in various community projects.

MISSION STATEMENT

Keyano is a comprehensive college of choice that is committed to excellence in teaching and learning, industry training and applied research through the delivery of relevant and sustainable programs and services that maximize opportunities for our students, staff, and stakeholders, and, that enable Keyano to engage in community leadership.

LOCATION

Two campuses are located in Fort McMurray, Alberta, Canada – Clearwater Campus (main); Suncor Energy Industrial Campus and a third campus is located in Fort Chipewyan, Alberta (300 kilometres north of Fort McMurray). Four regional learning centres are located in the communities of Conklin, Janvier, Fort McKay, and Gregoire Lake.

SCHOOL COLOURS

Blue and White.

MASCOT

King, a grey and white Husky dog.

ATHLETICS

Keyano College is one of the 17 members of the Alberta Colleges Athletic Conference. Keyano College Huskies Men's and Women's teams compete in a variety of sports on the provincial level, including volleyball, soccer, cross-country running, basketball, futsal and men's hockey.

A BIT ABOUT THE AREA

Wood Buffalo is a region of over 104,000 people located approximately 450 kilometres northeast of Edmonton, Alberta.

First explored by Peter Pond in the 1700s, the rich history of the region is reflected in the names of many of the buildings and attractions in the area. The main industry in the area is the extraction of oil from sand at major industrial developments both north and south of the urban centre. The oil sands industry is the major employer in the area. More than half of the region's workforce is directly employed through oil sands production and development.

Fort McMurray is almost completely surrounded by water. The Athabasca, Clearwater, House, Hangingstone and Horse Rivers flow through what is considered to be one of the province's most naturally beautiful communities.

Seasonal temperatures range from about 0 to -35 degrees Celsius in the winter, to 12 to 32 degrees Celsius in the summer.
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Keyano College extends its gratitude to all those dedicated individuals who contributed time and effort towards this Calendar.

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Production Manager: Elizabeth Faber
Graphic Design: Charlene Haggett

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KEYANO COLLEGE STUDENTS’ ASSOCIATION

Used Bookstore .......................... 791-8978
Students’ Association Office ............ 791-4950
King’s Lounge ............................ 715-3923

SERVICES

Aboriginal Student Centre ............... 791-8967
Alumni Association ..................... 791-4959
Bookstore ................................ 791-4960
Career Services .......................... 791-8945
Cooperative Education ................... 791-8945
Counselling ............................... 791-8934
Disability Support Services ............... 792-5608
Facility Booking .......................... room.booking@keyano.ca
Food Services ............................. 791-4878
Health Services ............................ 791-4808
Housing, Single & Family ................. 791-4926
Library .................................... 791-4917
Office of the Registrar ..................... 791-4801
Recruitment ................................ 791-4801
Security .................................... 791-4911
SKILL Centre ............................... 792-5640
Sport Manager ............................. 791-8925
Syncrude Sport & Wellness Centre ...... 791-7792
Theatre Box Office ......................... 791-4990

PROGRAMS

Aboriginal Entrepreneurship ............. 791-8967
Apprenticeship ............................ 792-2688
Business Administration ................. 791-8952
Coker Technician .......................... 791-4955
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Continuing Education Programming ..... 792-2688
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Educational Assistant ..................... 791-4833
Emergency Medical Technician .......... 791-4961
Environmental Monitoring ............... 791-4912
Environmental Technology ............... 791-4821
Fitness Leadership and Movement ...... 791-4833
Health Care Aide .......................... 792-5741
Heavy Equipment Technician Diploma ... 799-8600
Mechanical and Construction Trades Prep 791-4951
Nursing ..................................... 791-4961
Office Administration ..................... 791-8952
Power Engineering ....................... 791-4955
Pre-Employment ............................ 791-4906
Process Operations ....................... 791-4955
Regional College and Career Prep ....... 791-8967
Social Work Diploma ...................... 791-4993
University Studies ......................... 791-4832
Visual and Performing Arts .............. 791-4987

CONTACT INFORMATION
Toll-free 1-800-251-1408
or keyano.ca
COLLEGE DIRECTORY/ADMINISTRATION

ADMINISTRATION

President & CEO
Kevin F. Nagel, PhD ......................... 791-4853

Vice President, Academic
Catherine Koch ............................ 791-4851

Vice President, External Relations and Advancement
Therese Greenwood .......................... 791-4921

Vice President, Finance & Administration and CFO
Dwayne Hart ................................ 791-4860

Vice President, Corporate Services & CPO
Kim Jenkins ................................. 715-3910

Executive Director, Human Resources
Suzie Johnson ............................... 791-4863

Director, Planning, Procurement, and Property Management
Patricia Scantlebury ........................ 791-4842

Director, Finance
Deborah Hunt (Acting) ..................... 791-4967

Director, Learning Innovation and Library Services
Sharon Schultz .............................. 792-5623

Director, Marketing & Communications
Vacant .................................. 791-4943

Director, Sport & Wellness
Wade Kolmel ................................ 791-8901

Director, Theatre & Arts Centre
Alan Roberts .............................. 791-4953

Director, Student Services & Registrar
Marsha Kuchelema .......................... 792-5060

Dean, School of Arts, Science, Business and Education
Guy Harmer ................................. 791-4812

Dean, School of Career and Education Access
Gracie Maynard .............................. 791-8941

Dean, School of Trades & Heavy Industrial Division
Peter Lawlor ................................ 791-4882

Dean, School of Health, Wellness, and Human Services
Vacant

Associate Registrar
Lezlee Tuthill ............................... 791-4872

Associate Registrar
Melissa Merrigan ............................ 791-4885

BOARD OF GOVERNORS

Chair
Kara Flynn

Vice Chair
Mark Little

Vice Chair
Andrew Carter

President & CEO
Dr. Kevin Nagel

Public Member
Jeff Pardee

Public Member
Brent Davis

Public Member
Nicole Bourque-Bouchier

Public Member
Bryan Rabik

Student Representative
Courtenay Badran

Faculty Representative
Bev Maron

CUPE Representative
Emily Hicks

NO SMOKING POLICY
On July 1, 2003, Keyano College implemented a no smoking policy. Smoking is not permitted in any building owned or leased by Keyano College. Smoking is also prohibited in any College vehicle.
**ACADEMIC SCHEDULE 2014/2015**

**COLLEGE CLOSED:** All entrances to the building are locked and facilities are not available to students.  
**NO CLASSES:** Classes will not run but the Library, computer labs, SKILL Centre, and studios will be available for student use.

*Dates are subject to review and possible change.*

**2014**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>July 1, Tuesday</td>
<td>College closed (Canada Day)</td>
</tr>
<tr>
<td>August 4, Monday</td>
<td>College closed (Civic Holiday)</td>
</tr>
<tr>
<td>September 1, Monday</td>
<td>College closed (Labour Day)</td>
</tr>
<tr>
<td>September 2, Tuesday</td>
<td>Orientation Day</td>
</tr>
<tr>
<td></td>
<td>First day of Pre-Employment Carpentry and Electrical</td>
</tr>
<tr>
<td>September 3, Wednesday</td>
<td>Fall semester begins for academic programs</td>
</tr>
<tr>
<td>September 5, Friday</td>
<td>Last day of classes First Year Process Operations and Second Year Power Engineering</td>
</tr>
<tr>
<td>September 9, Tuesday</td>
<td>Last day to add for academic programs</td>
</tr>
<tr>
<td></td>
<td>Fall semester fees due</td>
</tr>
<tr>
<td>September 10, Wednesday</td>
<td>Late fee applied</td>
</tr>
<tr>
<td>September 15, Monday</td>
<td>First day of classes Fall Intake Mechanical Construction Trades Program</td>
</tr>
<tr>
<td>September 16, Tuesday</td>
<td>Last day to drop for academic programs</td>
</tr>
<tr>
<td></td>
<td>Last day to waive Health and Dental</td>
</tr>
<tr>
<td>September 26, Friday</td>
<td>Deadline to apply for Co-operative Education for first work term</td>
</tr>
<tr>
<td>September 30, Tuesday</td>
<td>Fall Awards application deadline</td>
</tr>
<tr>
<td>October 10, Friday</td>
<td>Last day to withdraw with a 50% refund</td>
</tr>
<tr>
<td>October 13, Monday</td>
<td>College closed (Thanksgiving Day)</td>
</tr>
<tr>
<td>October 27, Monday</td>
<td>First day of classes Second Year Process Operations and First Year Power Engineering</td>
</tr>
<tr>
<td>October 29, Wednesday</td>
<td>Last day to withdraw from Co-operative Education for first work term</td>
</tr>
<tr>
<td>November 11, Tuesday</td>
<td>No classes (Remembrance Day)</td>
</tr>
<tr>
<td>November 25, Tuesday</td>
<td>Fall Awards Celebration</td>
</tr>
<tr>
<td>November 26, Wednesday</td>
<td>Last day to withdraw (Grade of W, 0% refund)</td>
</tr>
<tr>
<td>December 5, Friday</td>
<td>Last day of classes for Certificate, Diploma, and University programs</td>
</tr>
<tr>
<td>December 8-17</td>
<td>Final Exams for Certificate, Diploma, and University programs</td>
</tr>
<tr>
<td>December 12, Friday</td>
<td>Last day of classes for Academic Upgrading and Childhood Studies</td>
</tr>
<tr>
<td>December 15-17</td>
<td>Final Exams for Academic Upgrading</td>
</tr>
<tr>
<td>December 19, Friday</td>
<td>End of fall semester for academic programs</td>
</tr>
<tr>
<td></td>
<td>Final grades due to Registrar by 4:30 pm</td>
</tr>
<tr>
<td>December 25– December 31</td>
<td>College closed (Christmas Break)</td>
</tr>
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</table>
## ACADEMIC SCHEDULE 2014/2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>January 1, Thursday</td>
<td>College closed (New Years Day)</td>
</tr>
<tr>
<td>January 5, Monday</td>
<td>Winter semester begins for academic programs</td>
</tr>
<tr>
<td>January 9, Friday</td>
<td>Last day to add for academic programs</td>
</tr>
<tr>
<td></td>
<td>Winter semester fees due</td>
</tr>
<tr>
<td>January 12, Monday</td>
<td>Winter late fee applied</td>
</tr>
<tr>
<td>January 16, Friday</td>
<td>Last day to drop for academic programs</td>
</tr>
<tr>
<td></td>
<td>Last day for Pre-Employment Carpentry and Electrical</td>
</tr>
<tr>
<td>February 9, Monday</td>
<td>First day of Winter Intake Mechanical Construction Trades Program</td>
</tr>
<tr>
<td>February 13, Friday</td>
<td>Last day to withdraw with a 50% refund</td>
</tr>
<tr>
<td>February 16, Monday</td>
<td>College closed (Family Day)</td>
</tr>
<tr>
<td>February 23 – Feb 27</td>
<td>Reading Week, No classes for academic programs</td>
</tr>
<tr>
<td>March 6, Friday</td>
<td>Last day of classes Second Year Process Operations and</td>
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<td></td>
<td>First Year Power Engineering</td>
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<tr>
<td>March 13, Friday</td>
<td>Last day for Fall Intake Mechanical and Construction Trades Program</td>
</tr>
<tr>
<td>March 30, Monday</td>
<td>Last day to withdraw (Grade of W, 0% refund)</td>
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<tr>
<td>April 3, Friday</td>
<td>College closed (Good Friday)</td>
</tr>
<tr>
<td>April 6, Monday</td>
<td>College closed (Easter Monday)</td>
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<tr>
<td>April 17, Friday</td>
<td>Last day of classes for Certificate, Diploma, and University programs</td>
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<tr>
<td>April 20-29</td>
<td>Final Exams for Certificate, Diploma, and University programs</td>
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<tr>
<td>April 22, Wednesday</td>
<td>Last day of classes for Academic Upgrading</td>
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<tr>
<td>April 24, Friday</td>
<td>Last day of classes for Childhood Studies</td>
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<tr>
<td>April 24-29</td>
<td>Final Exams for Academic Upgrading</td>
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<tr>
<td>April 30, Thursday</td>
<td>End of winter semester for academic programs</td>
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<tr>
<td>May 1, Friday</td>
<td>Fort Chipewyan Campus Graduation</td>
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<td>Final grades due to Registrar by 4:30 pm</td>
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<tr>
<td>May 8, Friday</td>
<td>Convocation</td>
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<tr>
<td>May 11, Monday</td>
<td>Spring session begins for academic programs</td>
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<tr>
<td>May 12, Tuesday</td>
<td>Last day to add for academic programs</td>
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<td>Spring semester fees due</td>
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<td>May 13, Wednesday</td>
<td>Late fee applied</td>
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<td>May 14, Thursday</td>
<td>Last day to drop for academic programs</td>
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<tr>
<td>May 18, Monday</td>
<td>College closed (Victoria Day)</td>
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<td>May 26, Tuesday</td>
<td>Last day to withdraw with 50% refund</td>
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<tr>
<td>June 10, Wednesday</td>
<td>Last day to withdraw (Grade of W, 0% refund)</td>
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<tr>
<td>June 19, Friday</td>
<td>End of spring semester for academic programs</td>
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<td>June 22, Monday</td>
<td>Final grades due to Registrar by 4:30 pm</td>
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<tr>
<td>June 30, Tuesday</td>
<td>End of College year</td>
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For Apprenticeship Scheduling please visit [tradescrets.gov.ab.ca](http://tradescrets.gov.ab.ca)
## 2014/2015 Calendars

### 2014

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<td>September</td>
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<td>1 2 3 4 5 6 7 8</td>
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<td>November</td>
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### 2015

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<td>November</td>
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<td>12 13 14 15 16 17 18</td>
<td>9 10 11 12 13 14 15</td>
<td>14 15 16 17 18 19 20</td>
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</table>
To be admitted to Keyano College, applicants must meet the general requirements outlined below, as well as the specific requirements for the program to which they are applying. Specific admission requirements are listed with each program section of this calendar.

For most programs, applicants are accepted on a first qualified, first served basis once their application and supporting transcripts/documents have been received. For programs with an enrollment limit, the College reserves the right to employ academic rating scales for admission purposes.

Students currently enrolled in Grade 12 will be considered for early conditional admission on the basis of marks received to date and list of current enrolment.

For admission purposes at Keyano College, the G.E.D. is not considered a high school equivalent diploma.

**GENERAL ENTRY REQUIREMENTS**

1. Admission to Keyano College is open to individuals who are 18 years of age or older and who meet the basic admission requirements for the programs to which they are applying. Students under the age of 18, who have completed a high school diploma, are turning 18 years of age in their first academic year at Keyano College, and who meet the basic admission requirements for the programs to which they are applying will also be eligible for admission. Students who do not meet the age requirement, but have a high school diploma and meet program admission requirements will require approval from the Registrar.

2. Regardless of country of origin or citizenship, applicants for all programs (except College and Career Prep) must demonstrate English Language Proficiency, as outlined in the program admission requirements and on page 12 of this calendar.

   Please see program descriptions for English Language Proficiency Admission requirements.

3. Students who have attended another post-secondary institution and have received a GPA of less than 1.0 or equivalent may be admitted as probationary students upon the recommendation of a Special Cases Committee consisting of College personnel.

4. Students with a GPA of less than 1.0 or equivalent from Keyano College may be re-admitted as probationary students upon the recommendation of a Special Cases Committee consisting of College personnel.

   Applicants who do not meet the admission requirements may request to have their status reviewed by a Special Cases Committee which includes a Counselor, the appropriate Program Chair and the Registrar. The decision of this group shall be final.

**HOW TO APPLY**

1. Apply online with ApplyAlberta.ca, and arrange to have official high school transcripts and all official post-secondary transcripts (if applicable) sent directly to:

   Office of the Registrar
   Keyano College
   8115 Franklin Avenue
   Fort McMurray, AB T9H 2H7

   Keyano College requires that all applications be submitted with a non-refundable application fee ($50 for domestic applicants, $100 for international applicants). Applications received without receipt of this fee will not be processed. See page 16 for international student application processes.

   For apprenticeship admission procedures please see the Apprenticeship section on page 122.

   Applications are processed according to the date they are received, so early application is advised. The application period will normally open on the following dates for Academic programs:

   **Fall term (September to December):** Application period opens October 1st of the previous year.

   **Winter term (January to April):** Application period opens February 1st of the previous year.

   Some Apprenticeship and Trades & Heavy Industrial programs have continuous intakes where the application period is year-round. Since some programs have specific application dates and deadlines, be sure to consult the specific program in the academic calendar.

**APPLY ONLINE** [ApplyAlberta.ca](http://www.applying.alberta.ca)

**Transcripts**

When submitting an application for admission students must arrange to have their official transcripts of high school and post-secondary education (college, university, technical institute) sent directly to the Office of the Registrar. Transcripts must be sent directly from the issuing institution to Keyano College to be considered official.

Once submitted, all transcripts become the property of Keyano College, and will not be returned to the applicant. This is standard practice among Canadian post-secondary institutions and is designed to protect the transcript’s authenticity. Photocopied documents are not acceptable.
APPLICATIONS PROCEDURES

Alberta High School Transcripts
If you have attended an Alberta high school, your transcript will be provided to Keyano College by ApplyAlberta once your application is processed. To request an official paper copy of an Alberta high school transcript, contact:
Alberta Education
High School Transcripts and Diplomas
2nd Floor, 44 Capital Boulevard
10044 - 108 Street NW Edmonton, Alberta T5J 5E6
Phone: (780) 427-5732
Toll Free: 310-0000
Fax: (780) 422-2137
www.education.alberta.ca/students/transcripts.aspx
For Alberta Grade 12 applicants, Keyano College uses the blended Alberta Education grades which are based on departmental exams and teacher-awarded results.

Current High School Students
Students applying to academic programs should submit a copy of their final marks to date as well as current enrollment to be considered for conditional acceptance. Students are required to ensure they order their official high school transcripts from the Department of Education to be sent directly to Keyano College upon completion of departmental exams to be reviewed for full acceptance.

High School Transcripts from Other Provinces
Transcripts can be obtained by contacting the appropriate education board of the province in which you attended or are attending high school. Ontario high school students can apply for transcripts directly from the high school attended.

Post-Secondary Transcripts
Transcripts from post-secondary institutions must be issued and signed by the institution and bear their official seal (it is not necessary to request official transcripts for course work previously completed at Keyano College). In order to obtain official copies of your post-secondary transcripts, contact the Registrar’s Office at the institution(s) you attended.
If you have attended an Alberta public post-secondary institution, your transcript will be provided to Keyano College by ApplyAlberta once your application is processed.

Interviews and Auditions
An individual interview, group interview or audition may be required for a particular program. Keyano College will notify the student to set up a date and time.

3. How to Register
Once students have received their acceptance or conditional acceptance letter to Keyano College, they will be advised on how to register for their program and/or courses. Along with an outline of the procedure, students will be notified about program fees and will be provided with other relevant information about the College.

A student is considered registered once their courses are entered in the student information system in the Office of the Registrar and an assessment sheet of tuition and related fees is produced.

Tuition Deposits
Students who register for College and Career Prep, Certificate and Diploma, and University programs are required to pay a $100 non-transferable tuition deposit ($200 for international students) with the balance of fees due by the end of the first week of the term. Students registering in Trades & Heavy Industrial programs are required to pay a $100 non-refundable, non-transferable admission deposit.

Students who are permitted to register one week after the start of classes will be charged a $25 late registration fee.

Students registering for Apprenticeship and Power Engineering: CML must pay full fees at the time of registration.

4. Clearing Conditions
If a student is conditionally accepted, the admission letter will contain certain conditions that must be met prior to the start of the program. Examples are: placement assessment, completion of a required course, or submission of final official transcripts. If conditions are not met, conditional acceptance may be revoked.

Students should read their acceptance letter carefully and take steps immediately to meet any conditions.
English is the primary language of instruction at Keyano College. English Language Proficiency is sufficient if applicants can present the successful completion of three or more years of full-time education in English, normally including the grade 12 year or higher, in a Canadian school (or an approved school outside of Canada with accepted English proficiency). If an applicant does not present these years of English education, they may be able to meet this requirement in other ways.

Please note that this applies to ALL programs except College Preparation and Academic Foundations. Keyano College reserves the right to use discretion in determining adequate levels of language proficiency to ensure success in academic programs.

<table>
<thead>
<tr>
<th>How can I show that I've met the requirements?</th>
<th>Keyano College will accept one of the following:</th>
<th>Details and conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completing a test of English Language Proficiency and earning a minimum score required by Keyano College. (See Note 4)</td>
<td>TOEFL: iBT (Test of English as a Foreign Language: Internet Based TOEFL). <a href="http://www.ets.org/toefl">www.ets.org/toefl</a></td>
<td>See required scores outlined in the specific program requirements for your program.</td>
</tr>
<tr>
<td></td>
<td>IELTS (academic) (International English Language Test System). <a href="http://www.ielts.org">www.ielts.org</a></td>
<td>See required scores outlined in the specific program requirements for your program.</td>
</tr>
<tr>
<td></td>
<td>CAEL (Canadian Academic English Language assessment exam).</td>
<td>See required scores outlined in the specific program requirements for your program.</td>
</tr>
<tr>
<td></td>
<td>MELAB (Michigan English Assessment Battery).</td>
<td>See required scores outlined in the specific program requirements for your program.</td>
</tr>
<tr>
<td></td>
<td>CLBA (Canadian Language Benchmark Assessment).</td>
<td>This option is only for applicants to the Coker Technician, Mechanical Construction Trades and Pre-Employment programs.</td>
</tr>
<tr>
<td>Completing certain courses that have been approved by Keyano College, and achieving a certain minimum grade in that course. (see note 4)</td>
<td>Alberta English 30-1 or Canadian provincial equivalent.</td>
<td>Final blended grade of 70% or higher.</td>
</tr>
<tr>
<td></td>
<td>Alberta English 30-2 or Canadian provincial equivalent.</td>
<td>Final blended grade of 75% or higher (not applicable to Nursing or University Studies programs).</td>
</tr>
<tr>
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<td>International Baccalaureate English A1, A2.</td>
<td>A grade of 5 or better.</td>
</tr>
<tr>
<td></td>
<td>International Baccalaureate English B.</td>
<td>A grade of 6 or better.</td>
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<tr>
<td></td>
<td>Advanced Placement English.</td>
<td>A grade of 4 or better on the AP English College Board examination.</td>
</tr>
<tr>
<td></td>
<td>O-level, GCSE, IGCSE, A5-level or A-level English Language of Literature course.</td>
<td>A grade of B or better.</td>
</tr>
<tr>
<td></td>
<td>6 credits of transferable university-level English Language and Literature course completed at a Canadian or American post secondary institution (or an institution listed on page 14) where English is the language of instruction.</td>
<td>A grade of B+ or better.</td>
</tr>
<tr>
<td></td>
<td>The University of Alberta's ESL 140/145.</td>
<td>Successful completion.</td>
</tr>
<tr>
<td>Previous Education in English (see notes 1, 2, 3, 5)</td>
<td>Three full years of education in English in Canada or the equivalent in another country where English is the principal language.</td>
<td>Such education must include Alberta Grade 12 or its equivalent level, and can be a combination of secondary and post-secondary education.</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the equivalent of three years of full-time instruction in a school/institution in Canada in which the major language of instruction is English.</td>
<td>The level of English proficiency required for graduation must be equivalent to that in English language schools/institutions in Canada.</td>
</tr>
<tr>
<td></td>
<td>Graduation from a degree program offered by an accredited institution at which English is the primary language of instruction.</td>
<td>The institution must be located in a country where English is the primary language (see list of countries and institutions listed on page 14).</td>
</tr>
</tbody>
</table>
ENGLISH LANGUAGE PROFICIENCY

Note 1: Enrollment in English as an Additional Language (EAL) courses or programs will not be included in the calculation of three years of full-time study. Enrollment must be in a regular high school or post-secondary institution for a credit program. Where students are registered in both EAL and regular programs, the EAL hours will be deducted from the total educational hours.

Note 2: Proof of three years of education must be submitted in the form of official transcripts (including details on course enrollment and hours of instruction).

Note 3: Failing grades/courses will not be counted when calculating full-time attendance. Only courses with passing grades will be considered.

Note 4: Standardized test results must be issued directly from the testing office. Photocopies will not be accepted.

Note 5: For a list of countries and institutions that are recognized as having met Keyano College's English Language Proficiency requirement, please see page 14.

Note 6: In countries where alpha-grades are further defined by numerical grades, a minimum grade of 3 is required to meet ELP (for example: a grade of B3).

All documents for the intended purpose of demonstrating English Language Proficiency must be official and sent directly to Keyano College, Office of the Registrar, Admissions Unit, from the issuing institution(s). Please note that test scores must have been written within two years prior to the start date of the program desired.

SPOKEN LANGUAGE PROFICIENCY

Applicants to the Health Sciences and Teaching programs (Bachelor of Science in Nursing, Practical Nurse, Pre-Medicine, Pre-Pharmacy, Bachelor of Education)

In addition to demonstrating English Language Proficiency, applicants whose first language is not English, regardless of country of origin, or citizenship must also present Spoken Language Proficiency. Applicants who have six or more years of full-time education in English, normally including the grade 12 year or higher, in a Canadian school (or an approved school outside of Canada with accepted English proficiency) meet this requirement. If applicants do not present these years of English education, they may be able to meet this requirement by presenting:

- a minimum score of 26 in the Speaking band of the TOEFL: iBT
- a minimum score of 7.5 in the Speaking band of IELTS.

In addition, students must meet the overall ELP test scores as outlined in specific program requirements. Successful completion of the SPEAK test offered at the University of Alberta may also be considered.

In addition to meeting English Language and Spoken English requirements (where required), applicants must also present the appropriate coursework to meet the admission requirements for their program.
ENGLISH LANGUAGE PROFICIENCY: EXEMPTIONS

EXEMPT COUNTRIES
The following countries are recognized as English Language Proficiency exempt, providing the applicant has been educated for a minimum of three years at a qualifying educational institution. Spoken Language Proficiency is exempt if the applicant has been educated for a minimum of six years at a qualifying educational institution. Please consult the official English Language Proficiency policy on page 12 for further details.

- American Samoa
- Anguilla
- Antigua
- Australia
- Bahamas School
- Barbados
- Belize
- Bermuda
- Botswana
- British Honduras
- Brunei
- Canada
- Cayman Islands
- England
- Falkland Islands
- Fiji
- Ghana
- Gibraltar
- Grenada
- Guyana
- India * (with 75% English on the all India Senior Secondary School Certificate)
- Ireland (Republic of Eire)
- Jamaica
- Kenya
- Liberia
- Malta
- Mauritius
- Montserrat
- New Zealand
- Nigeria
- Northern Ireland
- Pacific Islands
- Panama Canal Zone
- Puerto Rico
- Ryukyu Islands
- Scotland
- Seychelles
- Singapore
- South Africa (must present National Senior Certificate with a passing grade in English Home Language)
- St. Helena
- St. Kitts and Nevis
- St. Lucia
- St. Vincent and the Grenadines
- Tanzania
- Trinidad and Tobago
- Turks and Caicos Islands
- Uganda
- United States of America
- Virgin Islands
- Wales
- Zimbabwe

EXEMPT UNIVERSITIES
Applicants who have been educated for a minimum of three years at the following institutions in the designated countries are exempt from the English language proficiency requirement. Spoken Language Proficiency is exempt if the applicant has been educated for a minimum of six years at the following institutions.

Bangladesh
- Bangladesh Agricultural University
- Bangladesh University of Engineering and Technology (BUET)
- Chittagong University of Engineering and Technology
- Dhaka University of Engineering and Technology
- Independent University Islamic University of Technology
- Khuil University of Engineering and Technology
- Shahjalal University of Science and Technology (Engineering programs only)

Botswana
- Botswana College of Agriculture
- University of Botswana

Bulgaria
- American University in Bulgaria

Eritrea
- University of Asmara

Ethiopia
- Addis Ababa University
- Alemaya University
- Arba Minch Institute of Water Technology
- Jimma University
- Wongo Genet College of Forestry
- Egypt
- American University in Cairo

Germany
- International University
- Jacobs University

Ghana
- Kwame Nkrumah University of Science and Technology
- University of Cape Coast
- University of Developmental Studies (USD), Tamal
- University of Ghana

Hong Kong
- City University of Hong Kong
- Hong Kong Polytechnic University
- Hong Kong University of Science & Tech
- University of Hong Kong

India
- Aligarh Muslim University
- Anna University
- Annamalai University
- Arunchal University
- Assam Agricultural University
- Berhampur University
- Birla Institute of Technology (Ranchi)
- Birla Institute of Technology and Science
- Cochin University of Science & Technology
- Gauhati University
- Indian Institute of Management (Bangalore)
- Indian Institute of Science
- Indian Institute of Technology (Bombay)
- Indian Institute of Technology (Delhi)
- Indian Institute of Technology (Guwahati)
- Indian Institute of Technology (Kanpur)
- Indian Institute of Technology (Kharagpur)
- Indian Institute of Technology (Madras)
- Indian Institute of Technology (Roorkee)
- Indian School of Mines
- Jadavpur University
- Karnataka University
- Kerala Agricultural University
- Konkan Agricultural University
- Maharaja Sayajirao University of Baroda
- Mahatma Gandhi University
- Mangalore University
ENGLISH LANGUAGE PROFICIENCY: EXEMPTIONS

- Manipur University
- Sambalpur University
- Tamil Nadu Agricultural University
- Tamil Nadu Veterinary and Animal Sciences University
- Thapar Institute of Engineering and Technology
- University of Calcutta
- University of Health Sciences, Andhra Pradesh
- University of Mumbai
- University of Hyderabad
- Assumption University
- Copperbelt University
- American University of Beirut
- University of Uyo
- Central Philippine University
- Silliman University
- University of Negros Occidental-Recoletos
- University of San Carlos
- Xavier University

Kenya
- Catholic University of Eastern Africa
- Egerton University
- Jomo Kenyatta University of Agric & Tech
- Kenyatta University
- Maseno University
- Moi University
- University of Eastern Africa - Baraton
- University of Nairobi

Kuwait
- Kuwait University (Faculties of Science, Engineering and Petroleum, Allied Health Science, Medicine and the Department of English)

Lebanon
- Lebanese American University
- American University of Beirut

Lesotho
- National University of Lesotho

Malawi
- University of Malawi

Malta
- University of Malta

Namibia
- University of Namibia

Nigeria
- Abia State University
- Abubakar Tafawa Balewa University
- Adekunle Ajasin University (formerly Ondo State University)
- Adekunle Ajasin University
- Ahmadu Bello University
- Ambrose Alli University
- American University of Nigeria
- Bayero University
- Delta State University
- Enugu State University of Sci and Tech
- Federal University of Technology, Akure
- Federal University of Technology, Minna
- Federal University of Technology, Owerri
- Federal University of Technology, Yola
- Igbinedion University, Nigeria
- Ladoke Akintola University of Technology
- Lagos State University
- Nnamdi Azikiwe University
- Obafemi Awolowo University
- Ogun State University
- Ondo State University
- Rivers State University of Sci & Tech
- University of Abuja
- University of Ade-Ekiti
- University of Agriculture, Abeokuta
- University of Agriculture, Makurdi
- University of Benin
- University of Calabar
- University of Ibadan
- University of Ilorin
- University of Jos
- University of Lagos
- University of Maiduguri
- University of Nigeria
- University of Uyo
- University of Port Harcourt

Pakistan
- Aga Khan University
- Gomal University
- Hamdard University
- Lahore University of Management Sciences
- Mehran University of Engg & Technology
- NED University of Engg & Technology
- NWFP Agricultural University
- NWFP University of Engg & Technology
- Quaid-I-Azam University
- Sindh Agriculture University, Tandojam
- Sir Syed University of Engineering & Technology
- University of Agriculture, Faisalabad
- University of Engg & Technology, Lahore
- University of Health Sciences
- University of Karachi

Papua New Guinea
- Papua New Guinea University of Technology
- University of Goroka
- University of Papua New Guinea

Philippines
- Adamson University
- Benguet State University
- Central Mindanao
- Central Philippine University
- Far Eastern University
- Ligan Institute of Technology of the Mindanao State University
- Mindanao State University
- National University
- Notre Dame University
- Philippine Dominican Ctr of Institutional Studies
- Silliman University
- University of Negros Occidental-Recoletos
- University of San Carlos
- Xavier University

Samoa
- University of the South Pacific

Saudi Arabia
- King Fahd University of Petroleum and Minerals

Sierra Leone
- University of Sierra Leone

Singapore
- Nanyang Technological University
- National University of Singapore

Sri Lanka
- University of Moratuwa

Tanzania
- Mzumbe University
- Sokone University of Agriculture
- University of Dar es Salaam

Thailand
- Asian Institute of Technology
- Assumption University
- Mahidol University

Turkey
- Attilim University
- Bilkent University
- Bogazici University
- Izmir Institute of Technology
- Koc University
- Middle East Technical University

Uganda
- Makerere University
- Mbarara University of Science and Technology

United Arab Emirates
- American University of Sharjah

Zambia
- Copperbelt University
- University of Zambia

Zimbabwe
- National University of Sci & Tech
- University of Zimbabwe
- Zimbabwe Open University
APPLICATION PROCEDURES
Classes at Keyano College fill quickly and applying for a study permit can be a lengthy process, therefore it is recommended that international applicants begin the admissions process at least six months prior to the program start date.

• The application and document deadline for the fall semester is May 1.
• The application and document deadline for the winter semester is September 1.

Admission to Keyano College is open to individuals who are 18 years of age or older and who meet the basic admission requirements for the programs to which they are applying. Students who will be turning 18 years of age in their first academic year at Keyano College, and who meet the basic admission requirements for the program to which they are applying will also be eligible for admission. Students who do not meet the age requirement, but have a high school diploma (or equivalent) and meet program admission requirements will require approval from the Registrar.

HOW TO APPLY
Please include the following with your application:
• Application Form
• Clear and legible international educational credentials or certificates and final examination results beginning with the final year of secondary school. Certified official documents are required. Upon request, documents from overseas will be photocopied and originals returned to the applicant.
• International Qualification Assessment Service (IQAS) assessment of certified official documents is recommended. After initial review by Keyano College Admissions, some applicants may be required to provide this assessment. Assessment Services are available through: employment.alberta.ca/Immigration/12454.html.
• Copy of diploma/degree if applicable.
• English Language Proficiency results (see page 12 for detailed information).
• $100 non-refundable application fee.
• Any other documents that are part of the admission requirements for a specific program.

Applications may be submitted by mail, fax, in person, or through the Alberta Post-Secondary Application System (APAS), ApplyAlberta.ca. The $100 non-refundable application fee must be paid when the application is submitted. Applications received without payment will not be processed.

Mail to:
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB
T9H 2H7
BASIC PROVINCIAL HEALTH INSURANCE
It is important that you subscribe to the Alberta Health Care Insurance Plan (AHCIP) as soon as you arrive in Canada. You will need an Alberta Health Care Identification Card, Blue Cross Card or another private insurance plan identification card to access the health care system.

Students authorized to stay in Canada for 12 months or longer are required to register with AHCIP. You will be eligible to apply and to receive coverage on the date of your arrival. You must register within three months of your arrival in Canada. A copy of your Study Permit and/or your Temporary Resident Visa will be required when you apply for AHCIP.

AHCIP pays for services provided by physicians and oral surgeons. It also pays a portion of the cost of treatment provided by optometrists, chiropractors, podiatrists, and physical therapists. It does not pay for naturopaths, or for medication or ambulance services.

Registration forms can be downloaded and printed from:

Apply by mail
Send all required documents to the following address:
Alberta Health Care Insurance Plan
Box 1360 Stn Main
Edmonton, AB T5J 2N3

Additional information can be obtained by calling toll free: (403) 310-0000 and then dial(780) 427-1432 or, visit www.health.alberta.ca/ for more information.

PRIVATE HEALTH INSURANCE
If you do not qualify for AHCIP, you may purchase health insurance from a private insurance company such as:

Kanetix
www.kanetix.ca/travel-students-to-canada

Bridges International Insurance Services
www.biis.ca

International Student Insurance
www.internationalstudentinsurance.com

Ingle International
www.ingleinternational.com

EXTENDED HEALTH & DENTAL INSURANCE
International Students have access to the mandatory Students’ Association of Keyano College Benefits Plan, facilitated by the Students’ Association of Keyano College (SAKC). The Office of the Registrar manages the processing and paperwork for the SAKC. Brochures detailing the benefits and details of the plan are distributed at Orientation and are available from the Office of the Registrar.

For more information on the plan please contact the Office of the Registrar or: www.gallivan.ca or www.mystudentplan.ca/keyano

CAMPUS HEALTH SERVICES
Health Services are provided through Keyano College Health Services. The College Nurse provides confidential walk-in, on-campus health-care that includes health education and promotion with a wellness focus.
FEES

APPLICATION FEE
All applications must be submitted with a $50 non-refundable, non-transferable application fee ($100 for international applicants). Applications without this fee will not be processed.

The application fee will be charged to:
• All new students applying to a credit program (including eCampus students wanting a credential from Keyano).
• All ‘returning’ students who have been away from Keyano for one academic year or more.
• Current students applying to change programs.

The fee will NOT be charged to:
• Continuing Education students
• Any student applying for ‘re-admission’ within one academic year. This includes all students who are following a natural progression of programs at Keyano i.e. apprentices going from one year to the next, certificate students moving into a diploma, academic upgrading students moving into a certificate, etc.).
• Non-program students (students coming in to take one or two courses, eCampus students where Keyano is the partner, Continuing Education students taking one credit course, etc.).

Other notes:
• Students can apply for up to two programs on one application and application fee. If a student wants to apply to more than two programs they will be required to pay an additional application fee for each two program application that is submitted.

TUITION DEPOSIT
College and Career Prep
Certificate & Diploma Programs
University Programs

Upon registration, and to secure a seat in a program, students are required to pay either the full amount of fees assessed or a $100 ($200 for international students) tuition deposit. Non-payment of the tuition deposit will result in cancellation of registration.

The tuition deposit will be applied to the tuition amount owed. Students who cancel their registration prior to the program start date must notify the Office of the Registrar and will have tuition deposits refunded according to the following dates:

• Four weeks or more prior to the official first day of classes in any given semester: $75 refund ($150 for international students).
• Between four weeks and the day prior to the official first day of classes: $50 refund ($100 for international students).
• No tuition deposit refund on or after the official first day of classes.
The remainder of fees must be paid five working days from the official first day of classes (including the first day of classes) in any given semester (see tuition and refund schedule on page 21). A $100 penalty will be applied if all tuition and related fees are not paid within this time.

ADMISSION DEPOSIT
Coker Technician
Heavy Equipment Technician
Mechanical and Construction Trades Preparation
Power Engineering: Co-op
Process Operations: Co-op
Pre-Employment Programs

Students accepted to any of the above programs are subject to a $100 non-refundable, non-transferable admission deposit. The deposit must be paid within 10 working days after the admission letter’s acceptance date. If the deposit is not paid as required, the offer of admission can be revoked by the College.

Power Engineering: CML
Students are required to pay full fees when registering in the Power Engineering: CML program. Students that withdraw within the $2 week time period will be subject to the Refund of Fees outlined on page 20, except the $100 is non-refundable after the initial program start date.

Apprenticeship
Students are required to pay full fees when registering in Apprenticeship Technical Training.

FEES FOR FULL-TIME STUDENTS
Students taking 60% or more of the full program load are classified as full-time. Fees are assessed based on the Fee Schedule on page 22 of this calendar. Tuition and related fees are due by the end of the first week (five working days) of classes. Year-long course fees and credits are distributed evenly over the fall and winter semesters.

International students will pay a surcharge of 100%.

FEES FOR PART-TIME STUDENTS
Fees are assessed on a per course or credit basis. Students taking less than 60% of the full program load are classified as part-time students, and will be charged per credit. See the Fee Schedule on page 22. Year-long course fees and credits are distributed evenly over the fall and winter semesters.

REGISTRATION FEE
A non-refundable, non-transferable registration fee of $15 per semester, for full-time students enrolled in more than an eight-week program and a $7.50 per semester fee for part-time students, or students enrolled in eight or less than eight-week programs, will be assessed at the time of registration.
FEES

WELLNESS AND ATHLETIC FEE
Wellness and Athletic fees are compulsory fees that entitle students to the use of Keyano’s Syncrude Sport & Wellness Centre as well as admission to all Keyano College Huskies Athletics Home Games. Full-time credit students pay a Wellness and Athletic fee of $2.20 per week to a maximum of $30 per semester. This entitles them to access to the Syncrude Sport & Wellness Centre during the semester for no additional fees. Part-time credit students pay a Wellness and Athletic fee of $1.10 per week to a maximum of $15 per semester, which entitles them to a discounted Syncrude Sport & Wellness Centre membership of $249.

Auditing, brokered, senior citizens, and students attending programs outside Clearwater or Suncor Energy Industrial campus are not required to pay Wellness and Athletic fees.

STUDENTS’ ASSOCIATION FEE
The Students’ Association fee is a mandatory fee that entitles students to Students’ Association membership and all the benefits offered (see page 42.) Full-time students are assessed $4.64 per week of studies. Part-time students are required to pay $2.32 per week of studies. Fees are assessed at the time of registration.

The Students’ Association has implemented a building fund for students in the Fort McMurray campuses. It is $1.06/week for full-time students and $0.53/week for part-time students.

Students at regional learning centres pay the Associate Membership fee of $10.35 per term.

Auditing students and senior citizens are not required to pay Students’ Association fees.

HEALTH AND DENTAL PLAN FEES
Eligible full-time students are required to pay $126 per fall and winter semester (total of $252) for one complete year of the mandatory Extended Health & Dental plan offered by the Students’ Association of Keyano College (SAKC). This fee is assessed along with tuition and related fees during the registration process at the Office of the Registrar. Students already covered by an alternate plan (through parents, spouse or employer), have one opportunity per year to opt out of the SAKC Benefits plan. They must do so within the first two weeks of the start date of their program by completing a waiver form and providing proof of coverage to the Office of the Registrar. Students with the plan may also purchase coverage for a spouse and/or dependents(s) through the SAKC office. Check the website: www.mystudentplan.ca/keyano for additional information regarding deadlines, plan details and to print a waiver form.

LABORATORY AND MATERIALS FEE
A laboratory consumable fee of $25 per learner, per course, will be assessed at the time of registration to a maximum of $100 per semester.

Bachelor of Science in Nursing, Practical Nurse and Pre-Hospital program students will be assessed a laboratory fee at the time of registration. This fee will vary by program and year of study to a maximum of $100 per semester.

TECHNOLOGY FEE
A technology fee of $50 per semester, for full-time students and a $15 per semester fee for part-time students, will be assessed at the time of registration.

FEES FOR AUDITING STUDENTS
Fees for auditing a course shall be set at one-half the tuition fee, but students are responsible for the cost of all books, supplies and associated fees.

FEES FOR SENIOR CITIZENS
Students 60 years of age and over will receive a tuition waiver for one credit course per term, but are responsible for the cost of all books, supplies and associated fees.

BOOKS AND SUPPLIES
Tuition-paying students are required to purchase books and supplies available from the College bookstore. Sponsored students may have part or all of the cost of books and supplies paid for them by their sponsor.

RESPONSIBILITY OF FEES
It is the student’s responsibility to ensure that all tuition and related fees are paid.

PAYMENT OF FEES
Remaining tuition and related fees must be paid five working days from the official first day of classes (including the first day of classes) in any given semester (see tuition & refund schedule on page 21). A $100 penalty will be applied if fees are not paid within this time.

If fees are outstanding by the midpoint of the semester of any program, the student’s registration may be terminated. Exception may be granted where students have proof of sponsorship for tuition or student loan authorization. International (visa) students will pay a surcharge of 100%. Fees are paid to the Finance Office Cashier either in person or by mail. Cheques and money orders are to be made payable to Keyano College. Interac Direct Payment or payments by Visa, American Express and MasterCard are also accepted.

Students will not be registered for a succeeding semester or session, nor allowed to attend classes until all overdue accounts are paid in full. All financial obligations to the College and its educational partners must be settled before a diploma, certificate, transcript, or any type of award is issued.
FEES

TELEPHONE REGISTRATION
Credit registration by telephone will only be accepted if the full amount of tuition and related fees are paid by a credit card.

REFUND OF FEES
Students who voluntarily withdraw from the College must complete a Change of Registration form (available from the Office of the Registrar). Fees will be refunded in accordance with the following regulations.

Prior to the program, or course start date, students who cancel their registration by notifying the Office of the Registrar, in writing, will have tuition deposits refunded according to the following dates:

- Four weeks or more prior to the official first day of classes in any given semester: $75 refund ($150 for international students).
- Between four weeks and the day prior to the official first day of classes: $50 refund ($100 for international students).
- No tuition deposit refund on or after the official first day of classes.

Trades & Heavy Industrial programs are subject to a non-refundable, non-transferable deposit of $100.

Once classes begin, refunds will be granted according to the following guidelines:

1. Between 1/8th (i.e. 2nd week of a 16 week semester) and 3/8th (i.e. between 3rd and 6th week of a 16 week semester) of the length of a session, a 50% refund of tuition fees will be granted.

2. After 3/8th of the length of a session, no refund of tuition fees will be granted.

In special circumstances, exceptions to provisions (1) and (2) may be made by the President of the College or a designee. In the case of refunds, the designate will be the Registrar.

Students who are required to withdraw by the College are not eligible for a refund of tuition fees.

Refunds in cheque form will be mailed to the student’s permanent address within two weeks.

Please note: Non-attendance is not accepted as a notice of withdrawal. Students must notify the Office of the Registrar in writing or in person by signing the appropriate documents in order to withdraw from courses. Students are responsible for all changes made to their registration.

APPRENTICESHIP FEE COLLECTION
- Full tuition and fees are payable upon registering for technical training.

APPRENTICESHIP REFUND POLICY
- The $100 admission deposit and $50 application fee is non-refundable and non-transferable.
- If an Apprentice withdraws between the first day of classes and the end of the third week of classes, a 50% refund of tuition and associated costs will be granted.
- If an Apprentice withdraws after the end of the third week of classes, no refund will be given.
- If the College cancels a program, a full refund will be granted.

SCHEDULE OF FEES/CHARGES

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Official Transcripts</td>
<td>$10 +GST</td>
</tr>
<tr>
<td>Parchment Replacement</td>
<td>$30 +GST</td>
</tr>
<tr>
<td>Proof of Enrollment Letter</td>
<td>$5 +GST</td>
</tr>
<tr>
<td>Challenge Exam</td>
<td>50% course fee</td>
</tr>
<tr>
<td>Deferred Exam</td>
<td>$25</td>
</tr>
<tr>
<td>Supplemental Exam</td>
<td>$25</td>
</tr>
<tr>
<td>Course Outlines</td>
<td>$5 per outline to a max</td>
</tr>
<tr>
<td></td>
<td>of $50 +GST</td>
</tr>
<tr>
<td>ID Replacement</td>
<td>$25</td>
</tr>
</tbody>
</table>
REFUNDS, WITHDRAWALS & DROPS

REFUND AND CREDIT SCHEDULE
Failure to officially withdraw, in writing, from any course in accordance with withdrawal procedures will result in no refund of fees or any reduction of unpaid fees. Students who fail to attend courses without officially withdrawing are still indebted to the College for all applicable fees.

TUITION TAX RECEIPTS (T2202A) FOR FILING PERSONAL INCOME TAX FORMS
The tax form T2202A is automatically produced for the sum of eligible amounts applicable to the respective calendar year for each student.

T2202A forms will be available through the Internet at Keyano College online (selfservice.keyano.ca/) beginning February of the following year. Alternately, students may call the Office of the Registrar at 1-800-251-1408 ext. 4801 or locally at (780)791-4801.

TUITION & REFUND SCHEDULE

<table>
<thead>
<tr>
<th>Event</th>
<th>Fall 2014</th>
<th>Winter 2015</th>
<th>Spring 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition deposit is non-refundable as of first day of classes</td>
<td>Sept 3</td>
<td>Jan 5</td>
<td>May 11</td>
</tr>
<tr>
<td>Tuition and related fees are due</td>
<td>Sept 9</td>
<td>Jan 9</td>
<td>May 12</td>
</tr>
<tr>
<td>A $100 late fee is added if all fees are not paid in full and financial hold applied</td>
<td>Sept 10</td>
<td>Jan 10</td>
<td>May 13</td>
</tr>
<tr>
<td>Last day to drop with full refund (Minus tuition deposit)</td>
<td>Sept 16</td>
<td>Jan 16</td>
<td>May 14</td>
</tr>
<tr>
<td>Last day to waive SAKC Health &amp; Dental Plan (once per year)</td>
<td>Sept 16</td>
<td>Jan 16 (new winter students only)</td>
<td></td>
</tr>
<tr>
<td>Last day to withdraw from course(s) with 50% refund of tuition fees</td>
<td>Oct 10</td>
<td>Feb 13</td>
<td>May 26</td>
</tr>
<tr>
<td>No refund is issued for withdrawal</td>
<td>Oct 11</td>
<td>Feb 14</td>
<td>May 27</td>
</tr>
</tbody>
</table>

TUITION & REFUND SCHEDULE WITHDRAWALS AND DROPS
Upon official withdrawal from a course or program, the refund of fees or credits reducing unpaid fees due are listed in the Refund and Credit Schedule (below). Please note that students who have any outstanding indebtedness to Keyano College will be placed on financial hold which will result in collection procedures as well as restrict access to the College in the future. The Finance Department should be contacted to resolve any outstanding obligations.
### FEES for 2014-2015

The following fee schedule may be subject to change without notice.

**APPLICATION FEE** $50

**International (Visa Students)** $100

Tuition and related fees are set on an annual basis.

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees per Semester</th>
<th>Part-Time Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Upgrading</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Academic Foundations</td>
<td>$1,139.00</td>
<td>$73.60</td>
</tr>
<tr>
<td>College Preparation</td>
<td>$1,139.00</td>
<td>$73.60</td>
</tr>
<tr>
<td>*Transitional Program</td>
<td>$1,424.00</td>
<td>$92.00</td>
</tr>
<tr>
<td>*Note: 10 month program, fees assessed over Fall and Winter terms only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Certificate and Diploma Programs** | | |
| Aboriginal Entrepreneurship | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| +Business Administration | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| +Computer Information Systems | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Early Learning and Childcare | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Educational Assistant | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Emergency Medical Technician - Ambulance | $2,720.00 | $92.00 | $20.80 | $30.00 | $15.00 | $126.00 | $50.00 | $3,053.80 | $15.00 |
| Emergency Medical Technician - Paramedic | $2,924.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $3,235.24 | $15.00 |
| Environmental Monitoring | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Environmental Technology | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $169 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Fitness Leadership and Movement | $1,951.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,262.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Health Care Aide | $2,549.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,860.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Heavy Equipment Technician Diploma | $3,176.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $3,487.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| +Office Administration | $1,951.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,262.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Practical Nurse | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,262.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Social Work | $1,034.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $1,219.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| Visual and Performing Arts | $1,786.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,097.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |

| **University Studies & Collaborative Degree Programs** | | |
| Nursing – Years I and II | $1,951.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,262.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| University Studies | $1,951.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $2,262.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |
| *Note: Post RN and Nursing – Years III and IV, will be equal to the fees charged by the U of A. |

| **Co-operative Programs** | | |
| Co-op Workterm | $583.00 | $73.60 | $16.64 | $30.00 | $15.00 | $126.00 | $50.00 | $894.24 | $186 | $36.80 | $8.32 | $15.00 | $7.50 | $15.00 |

Note: All program fees, except Apprenticeship, are for one academic year. Apprenticeship tuition is $58 per week. Electrical 4th year tuition is $1175.
The fees schedule may be subject to change without notice.

### Fees for 2015-2016

**Application Fee**

- **International (Visa Students)**: $100
- **Domestic Students**: Free

Tuition and related fees are set on an annual basis.

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees per Semester</th>
<th>Part-Time Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Upgrading</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Academic Foundations</td>
<td>$1,150.00</td>
<td></td>
</tr>
<tr>
<td>College Preparation</td>
<td>$1,150.00</td>
<td></td>
</tr>
<tr>
<td>*Transitional Program</td>
<td>$1,438.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees per Semester</th>
<th>Part-Time Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate and Diploma Programs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aboriginal Entrepreneurship</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Business Administration</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Early Learning and Childcare</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Educational Assistant</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Emergency Medical Technician - Ambulance</td>
<td>$2,747.00</td>
<td>$171</td>
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<tr>
<td>Emergency Medical Technician - Paramedic</td>
<td>$2,933.00</td>
<td>$171</td>
</tr>
<tr>
<td>Environmental Monitoring</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Environmental Technology</td>
<td>$1,804.00</td>
<td>$171</td>
</tr>
<tr>
<td>Fitness Leadership and Movement</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
<tr>
<td>Health Care Aide</td>
<td>$2,574.00</td>
<td>$171</td>
</tr>
<tr>
<td>Hotel Equipment Technician Diploma</td>
<td>$3,208.00</td>
<td>$171</td>
</tr>
<tr>
<td>Office Administration</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
<tr>
<td>Practical Nurse per Credit</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
<tr>
<td>Social Work</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
<tr>
<td>Visual and Performing Arts</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees per Semester</th>
<th>Part-Time Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>University Studies &amp; Collaborative Degree Programs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing - Years I and II</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
<tr>
<td>University Studies</td>
<td>$1,971.00</td>
<td>$171</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees per Semester</th>
<th>Part-Time Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Co-operative Programs (+programs denoted above)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-op Workterm</td>
<td>$589.00</td>
<td>$171</td>
</tr>
</tbody>
</table>

**Note:**
- No tuition fees are charged for the fourth workterm in Academic Co-op program although, students are responsible for all other related charges as noted above. If a workterm straddles two academic years, the tuition fee is the amount set for the year in which the workterm begins.
- All program fees, except Apprenticehip, are for a one year term. Apprenticehip tuition is $89 per week. Electrical 4th year tuition is $168.

### Trades

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees</th>
<th>Part-Time Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apprenticehip</td>
<td>$792.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Preemployment programs</td>
<td>$6,823.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Color Technician</td>
<td>$2,644.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Mechanical and Construction Trades</td>
<td>$2,263.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Power Engineering 4th Class (CML)</td>
<td>$1,044.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Power Engineering 3rd Class (CML)</td>
<td>$1,172.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Power Engineering Co-op</td>
<td>$5,582.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Process Operator Co-op</td>
<td>$5,582.00</td>
<td>$171.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees</th>
<th>Part-Time Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apprenticehip</td>
<td>$792.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Preemployment programs</td>
<td>$6,823.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Color Technician</td>
<td>$2,644.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Mechanical and Construction Trades</td>
<td>$2,263.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Power Engineering 4th Class (CML)</td>
<td>$1,044.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Power Engineering 3rd Class (CML)</td>
<td>$1,172.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Power Engineering Co-op</td>
<td>$5,582.00</td>
<td>$171.00</td>
</tr>
<tr>
<td>Process Operator Co-op</td>
<td>$5,582.00</td>
<td>$171.00</td>
</tr>
</tbody>
</table>

**Note:**
- All program fees, except Apprenticehip, are for a one year term. Apprenticehip tuition is $89 per week. Electrical 4th year tuition is $168.

### Other Fees

- **Application Fee:** $50
- **International (Visa Students):** $100
- **Domestic Students:** Free

**Tuition and related fees are set on an annual basis.**

**The following fee schedule may be subject to change without notice.**

**Note:**
- All program fees, except Apprenticehip, are for a one year term. Apprenticehip tuition is $89 per week. Electrical 4th year tuition is $168.

**Tuition and related fees are set on an annual basis.**
### FEES for 2016-2017

The following fee schedule may be subject to change without notice.

Tuition and related fees are set on an annual basis.

<table>
<thead>
<tr>
<th>Program</th>
<th>Full Time Fees per Semester</th>
<th>Part-Time Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tuition per Term</td>
<td>Students’ Association</td>
</tr>
<tr>
<td>Academic Upgrading</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Academic Foundations</td>
<td>$1,162.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>*Transitional Program</td>
<td>$1,453.00</td>
<td>$93.60</td>
</tr>
<tr>
<td>Certificate and Diploma Programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aboriginal Entrepreneurship</td>
<td>$1,822.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>+Business Administration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+Computer Information Systems</td>
<td>$1,822.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Early Learning and Childcare</td>
<td>$1,822.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Educational Assistant</td>
<td>$1,822.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Emergency Medical Technician - Ambulance</td>
<td>$2,774.00</td>
<td>$93.60</td>
</tr>
<tr>
<td>Emergency Medical Technician - Paramedic</td>
<td>$2,983.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Environmental Monitoring</td>
<td>$1,822.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Environmental Technology</td>
<td>$1,822.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Fitness Leadership and Movement</td>
<td>$1,991.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Health Care Aide</td>
<td>$2,600.00</td>
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<tr>
<td>Heavy Equipment Technician Diploma</td>
<td>$3,240.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>+Office Administration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practical Name per credit</td>
<td>$3,240.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>*Note: Post RN and Nursing – Years III and IV, will be equal to the fees charged by the U of A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Studies &amp; Collaborative Degree Programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+Nursing – Years I and II</td>
<td>$1,991.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>University Studies</td>
<td>$1,991.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Co-operative Programs (+ programs denoted above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-op Workterm</td>
<td>$595.00</td>
<td>$74.88</td>
</tr>
<tr>
<td>Note: No tuition fees are charged for the fourth workterm in Academic Co-op program although, students are responsible for all other related charges as noted above. If a workterm straddles two academic years, the tuition fee is the amount set for the year in which the workterm begins.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Costs for 2016-2017

<table>
<thead>
<tr>
<th>Program</th>
<th>Students’ Association</th>
<th>SA Building Fee</th>
<th>Recreation &amp; Athletic Fee</th>
<th>Registration Fee</th>
<th>Health &amp; Dental</th>
<th>Tech Fee</th>
<th>Materials</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trades</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apprenticeship</td>
<td>$800.00</td>
<td>$37.44</td>
<td>$8.64</td>
<td>$17.60</td>
<td>$30.00</td>
<td>$30.00</td>
<td>$67.00</td>
<td>$956.68</td>
</tr>
<tr>
<td>Pre-Employment</td>
<td>$6,891.00</td>
<td>$74.88</td>
<td>$17.28</td>
<td>$30.00</td>
<td>$15.00</td>
<td>$126.00</td>
<td>$50.00</td>
<td>$7,204.16</td>
</tr>
<tr>
<td>Coler</td>
<td>$2,670.00</td>
<td>$37.44</td>
<td>$8.64</td>
<td>$17.60</td>
<td>$30.00</td>
<td>$30.00</td>
<td>$2,798.68</td>
<td></td>
</tr>
<tr>
<td>Mechanical &amp; Construction Trades</td>
<td>$2,236.00</td>
<td>$112.32</td>
<td>$25.92</td>
<td>$60.00</td>
<td>$30.00</td>
<td>$252.00</td>
<td>$2,866.24</td>
<td></td>
</tr>
<tr>
<td>Power Engineering 4th Class (CML)</td>
<td>$1,054.00</td>
<td>$74.88</td>
<td>$17.28</td>
<td>$30.00</td>
<td>$15.00</td>
<td>$126.00</td>
<td>$30.00</td>
<td>$1,241.16</td>
</tr>
<tr>
<td>Power Engineering 3rd Class (CML)</td>
<td>$1,154.00</td>
<td>$74.88</td>
<td>$17.28</td>
<td>$30.00</td>
<td>$15.00</td>
<td>$126.00</td>
<td>$30.00</td>
<td>$1,241.16</td>
</tr>
<tr>
<td>Process Operator Co-op</td>
<td>$5,638.00</td>
<td>$149.76</td>
<td>$34.56</td>
<td>$60.00</td>
<td>$30.00</td>
<td>$232.00</td>
<td>$100.00</td>
<td>$6,264.32</td>
</tr>
<tr>
<td>Note: All program fees, except Apprenticeship, are for a one-year term. Apprenticeship tuition is $800 per week. Electrical 4th year tuition is $1,200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Health & Dental fees are subject to change on an annual basis.
ADMISSION STATUS
Upon admission, students will be classified as one of the following:

- **Regular Students** are admitted to a credit program on the basis of meeting the entry requirements, or having satisfied a provision of admission, or having successfully completed a probationary period.

- **Mature Students** meet one of the following criteria with or without a completed high school diploma: (1) have been out of school for at least three consecutive years; or (2) are at least 21 years of age at time of registration.

- **Conditional Students** are admitted to a credit program with the conditions that transcripts or other documents are provided to confirm admission requirements are met. Conditions must be cleared prior to the start of classes or the offer of conditional acceptance may be revoked.

- **Special Students** may be admitted to individual credit courses but not to a credit program. Students may take up to four credit courses, at one per term, at which time their performance will be reviewed. Special Students are not eligible to receive a certificate or diploma.

- **Matriculation** – University Studies Students are those who are not eligible for University Studies or other post-secondary programs due to missing high school pre-requisites. Students are registered as matriculation students and pay fees in accordance with the courses they are taking.

- **Visiting Students** are admitted on the basis of a letter of permission from another institution, with the intention of transferring Keyano College credits back to the home institution.

- **Auditing Students** are permitted to audit individual courses with the permission of the Program Chair in consultation with the appropriate instructor. Because auditing students are not subject to an evaluation process and do not participate in class discussion grades are not assigned, and no credit is granted for the courses. At the discretion of the Program Chair in consultation with the appropriate Dean, certain courses including individual lessons, studio and shop offerings, may be deemed inappropriate for and closed to auditing students. A change in status from regular to audit is permitted only within the first two meetings of the class.

- **Probationary Students** are admitted subject to meeting specific requirements of academic achievement or behavioural performance. Students who meet the conditions of their probation will become Regular Students. Students who do not meet the conditions of their probation may be required to withdraw from the College for at least one semester.

- **International Students** are citizens or residents of another country who have a valid student authorization to study in Canada.

REGISTRATION
All students at the College are required to register in their courses. Students will not be allowed to attend classes unless they have officially registered. Registration is not complete until all fees are paid or proof of funding is presented. Consult the “Payment of Fees” policy on page 19.

Upon registration in College credit courses, students are classified in either of these categories:

- **Full-time Student**
  For the purposes of enrollment reporting for agencies such as Alberta Students’ Finance, Alberta Colleges Athletic Conference (ACAC), and Employment and Immigration Canada, students taking 60% or more of the full program load in each term are classified as full-time.

- **Part-time Student**
  A student who is registered in less than 60% of the full program load is classified as a part-time student. Students who are receiving funding by student loans and most sponsors must maintain full-time status throughout the term. Students are responsible for knowing their registration status. A change in status may affect eligibility for sponsorship, loans, athletics, scholarships, financial awards and some College services.

CHANGES IN REGISTRATION
In order to add or drop a course after registration, students must consult a Student Advisor or their Program Chair and complete a Change of Registration form available from the Office of the Registrar. There are no academic penalties for course changes within the first 1/8 of a term (i.e. first two weeks of a 16-week semester).

Consult the Grading System and Fees section of this calendar for information on penalties for dropping a course after the 1/8 period. Students may not be able to add courses after the first week of classes. **Students who fail to report any changes in their registration status will be charged fees according to the fee assessment guideline.**

LATE REGISTRATION
Students who receive permission to register by their Program Chair and the Office of the Registrar one week (five working days) after the first official day of classes in any given semester will be charged a $25 late registration fee on any course(s).
ACADEMIC REGULATIONS

WITHDRAWAL FROM A PROGRAM
A student can withdraw from a program at any time. However, speaking with a College counsellor, the Program Chair, or Student Advisor first is strongly encouraged. To withdraw, students must complete a withdrawal form and submit it to the Office of the Registrar. Non-attendance is not accepted as a notice of withdrawal.

DROP PERIOD
Students may drop or delete courses before classes start or within the first 1/8 of their semester or session. Dropped courses do not appear on the official transcript.

WITHDRAWAL PERIOD
Students who withdraw between 1/8 and 1/2 the length of a semester or session will receive a grade of “W” (Withdrawal) in their course(s) which will appear on the official transcript, but is not calculated in the Grade Point Average (GPA).

ACADEMIC PENALTY
Students who withdraw after the half-way point of the semester or session will receive a grade of “WF” (Withdraw/Fail) in their course(s) which will be calculated as 0.0 GPA on the official transcript. Refunds are determined according to the refund policy (see Refund of Fees, page 20).

PRACTICUM FAILURES
If a student fails a practicum, work placement, or co-op work term, he/she requires the permission of the Program Chair or Coordinator of their program to retake the course. This may also result in termination from the program.

CHANGE OF NAME OR ADDRESS
Please notify the Office of the Registrar in writing immediately of any name changes so that student records remain accurate. Name change documentation must be included.

It is also vital that any change in telephone number or address be updated in the student record. Transcripts, refund cheques, tax receipts and certificates or diplomas are mailed to a student’s permanent address. To change an address, students must complete a Student Change of Information form available from the Office of the Registrar.

This information is considered confidential and is used for College business only.

CONFIDIGNALITY
The personal information a student provides upon admission is being collected under the authority of the Colleges Act and in accordance with the Freedom of Information and Protection of Privacy Act of the Province of Alberta. Data collected is used to determine the student’s eligibility for admission to a program, and, if accepted and registered, is used to process the student’s enrollment, to administer and evaluate College programs, and for statistical purposes. Personal data compiled may also be used by the College or disclosed to third parties for other operational purposes that are consistent with the mission of Keyano College, or as required by the Statistics Act of Canada, or by the Alberta government.

Keyano College will only release student information with the written consent of that student. Consent to Release forms are available from the Office of the Registrar.

Public inquiries directly related to the collection and use of this information should be directed to the Keyano College FOIP Coordinator at foip@keyano.ca.
Advanced credit may be granted to conditionally accepted or accepted applicants who have completed equivalent studies at an accredited post-secondary institution. For advanced credit consideration, applicants must submit a completed Advanced Credit Request form to the Office of the Registrar. Course outlines and/or detailed course descriptions should be included for out-of-province completed coursework. All official transcripts must be on record in the Office of the Registrar in order for the advanced credit request to be considered. The appropriate Program Chair and the Registrar will determine the credit to be granted. The Registrar will convey the decision by letter to the applicant.

Advanced credits are awarded only to the extent they fit the program in which the applicant is enrolled and valid only if the student completes at least half of the program at Keyano College. If doubt exists as to the suitability of the courses under consideration, an interview is conducted with the applicant and the final decision is made by the Program Chair, the Registrar, and the Dean of the division. All transfers of credit shall be governed by the applicable academic regulations. Students who receive advanced credit for a course may repeat the course at Keyano College for credit; however the Keyano grade will not be used in calculating the grade point average for purposes of academic standing and awards.

A minimum of C- from the issuing institution is considered necessary to receive advanced credit from Keyano College.

Prior Learning Assessment Recognition (PLAR) is defined as awarding credit for learning which has taken place outside of post-secondary institutions. PLAR provides a way of recognizing learning which has taken place on the job, in employment based training, or in a variety of experiences outside of the workplace.

PLAR is available to students who have been admitted to Keyano College programs. Prior Learning is assessed utilizing a formal assessment process, which may include examinations, projects, auditions, performances, essays, and assignments. The final decision regarding the assessment methodology rests with the instructor of the course and appropriate Program Chair. Students who receive a failing grade in a course on the basis of PLAR will not be permitted a second opportunity. Prior Learning must equate to existing Keyano College courses. Some courses may be exempted from PLAR. All University Studies and Nursing courses are exempted from PLAR.

Successful completion of PLAR will be indicated by a grade of PL. This grade is not calculated in GPA. The transfer credits earned by PLAR at Keyano College to another post-secondary institution will be governed by the policies of the receiving institution.

In order to be granted a certificate or diploma in a program, students must maintain a residency requirement. A minimum of 50% of all program requirements must be Keyano College courses. Parchments will not be issued if students have a majority of courses granted by advanced credit or prior learning assessment recognition.

Exceptions to the 50% residency requirements may be made, in individual cases, for courses successfully completed at institutions which are signatories to the Northern Alberta Post-Secondary Institutions.

In addition to Keyano College, Alberta North institutions include Athabasca University, Portage College, Northern Lakes College, NorQuest College, Grande Prairie Regional College and Aurora College, NWT. The Registrar and the appropriate Program Chair will determine the credit to be awarded.

Students wishing to transfer should refer to the Alberta Transfer Guide which lists all course and program transfer agreements between post-secondary institutions in Alberta, Northwest Territories and Nunavut.

The Guide and other transfer information are available online at www.acat.gov.ab.ca/ or by contacting:

Alberta Council on Admissions and Transfer
11th Floor, Commerce Place
10155 - 102 Street
Edmonton, AB T5J 4L5
Phone: 310-0000, 422-9021 (toll-free in Alberta) or (780) 422-9021
Email: acat@gov.ab.ca
EXAMINATIONS

GENERAL EXAMINATIONS
At the beginning of each course, instructors will outline the method of evaluation used in determining the final grades. Students must be available for final examinations at the scheduled times or they may be granted a grade calculated on the basis of work completed throughout the semester. Students have access to review their final exam within two months after the date of the final examination.

CHALLENGE EXAMINATION
Students who have acquired skills or knowledge through experience and/or related courses which are relevant to the content of a course offered at Keyano College may be granted credit for such a course by requesting and passing a challenge examination.

Application to write a challenge exam is initiated by the student through the appropriate Program Chair by submitting a Special Examination Application Form available from the Office of the Registrar. Final decision on granting or denying permission for a challenge exam is made cumulatively by the course instructor, the Program Chair and the Registrar.

If permission is granted, the exam must be written within two weeks after approval unless otherwise indicated. There is a non-refundable fee of 50% of the course tuition per challenge exam. The grade recorded for a successful exam is “CR,” which is not calculated in the student’s GPA.

A challenge exam does not apply to any course offerings at Keyano College that are subject to external accrediting agencies. No student shall receive advanced credit and/or accumulate challenge exam credits in excess of 50% of total required for graduation in certificate and diploma programs, unless there are exceptional circumstances. Students who receive a failing grade or a grade of “WF” (Withdraw/Fail) will not be allowed to write a challenge exam for that course within two years of failing the course.

DEFERRED FINAL EXAMINATION
Students who are unable to write a final examination due to illness or other exceptional circumstances may apply for a deferred examination. The student must contact the Program Chair prior to the exam or within 48 hours after the scheduled exam to request a deferred final exam. A medical certificate or other appropriate documentation is required.

The student must complete a Special Examination Application Form available from the Office of the Registrar and pay a fee of $25 for each exam. The Program Chair will advise students of the decision to write a deferred exam which, if approved, must be written within one month after the end of the course unless otherwise indicated. The Program Chair shall advise the Registrar of any deferred exams and the extenuating circumstances.

SUPPLEMENTAL EXAMINATIONS
In order to apply to write a supplemental examination, students must meet the following conditions:

- The student must have completed and passed the course work up to the time of the final examination based on the weighting established in the course outline, and
- The student must have written and failed the final examination and as a result either (a) failed the course or (b) received a grade less than sufficient for progression to subsequent courses or programs.

Students who pass the course with a grade sufficient for progression to subsequent courses or programs will not be eligible to write a supplemental exam.

Supplemental Examination Stipulations:
1. A maximum of two supplemental examinations will be allowed per calendar year, where a calendar year is defined as September 1st to August 31st of the following year.
2. A student may be allowed to write a second supplemental examination after they repeat the course.
3. In collaborative programs, the supplemental examination policy of the collaborating institution shall apply for course credits granted by the collaborative institution, unless otherwise specified in the Memorandum of Agreement between the College and the collaborating institution.
4. The mark received for the supplemental examination will replace the original final examination mark and will be used in computing the final grade in the course. Note that the percentage of the final grade allotted to the supplemental examination shall be the same as the percentage of the final grade allotted to the student’s final examination in the course. The final course grade may increase, decrease, or remain the same as a result of writing a supplemental examination, depending upon the mark obtained on the supplemental examination.
5. A note will appear on the student’s transcript indicating that a supplemental examination was written.
6. No supplemental examination will be allowed for deferred examinations.
7. For the Nursing Program, a supplemental examination will not be allowed for students who have failed the clinical/laboratory component of a Nursing course.
SUPPLEMENTAL EXAMINATION PROCEDURES

Prior to making application to the Registrar to write a supplemental examination, a student should discuss their request to write such an examination with the course instructor or Program Chair to ensure that they meet the eligibility criteria for application, as specified above.

After ensuring that they meet the criteria for writing supplemental exams, the student should be aware that the following procedure will be applied:

1. The student must complete a Special Examination Application Form from the Office of the Registrar no later than 10 working days after the date that marks are due in the Registrar's office (course-end date). A list of course end dates will be available from the Office of the Registrar. It is the student's responsibility to determine the need for a supplemental examination within the time period described above.

2. The instructor and appropriate Program Chair will review the student’s performance in the course, and may grant or deny permission, based on eligibility, to write a supplemental examination.

3. If permission to write a supplemental examination is denied, the reason for the denial will be recorded on the application form.

4. Upon approval of the application, the student will pay a non-refundable fee of $25 for each supplemental examination to the Keyano College Cashier.

5. The completed application shall be submitted to the Office of the Registrar.

6. If permission is granted, the instructor, in consultation with the student, will set the date, time and place for the supplemental examination. The examination will normally be written within two weeks after approval.

REPEATING A COURSE

A course may only be taken twice. If a student has minimum progression grade they may not take the course a second time.
GRADING SYSTEM

Keyano College Academic Upgrading uses a 4-point percentage based grading system as a measure of maintaining consistent grading with other provincial high schools and post-secondary institutions.

**Academic Upgrading (Effective July 1, 2006)**

<table>
<thead>
<tr>
<th>Descriptor</th>
<th>4.0 Grade Scale</th>
<th>Percentage Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>4.0</td>
<td>96% - 100%</td>
</tr>
<tr>
<td></td>
<td>4.0</td>
<td>90% - 95%</td>
</tr>
<tr>
<td></td>
<td>3.7</td>
<td>85% - 89%</td>
</tr>
<tr>
<td>Good</td>
<td>3.3</td>
<td>81% - 84%</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>77% - 80%</td>
</tr>
<tr>
<td></td>
<td>2.7</td>
<td>73% - 76%</td>
</tr>
<tr>
<td>Satisfactory</td>
<td>2.3</td>
<td>69% - 72%</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>65% - 68%</td>
</tr>
<tr>
<td>Minimum Prerequisite</td>
<td>1.7</td>
<td>60% - 64%</td>
</tr>
<tr>
<td>Poor</td>
<td>1.3</td>
<td>55% - 59%</td>
</tr>
<tr>
<td>Minimum Pass</td>
<td>1.0</td>
<td>50% - 54%</td>
</tr>
<tr>
<td>Failure</td>
<td>0.0</td>
<td>0% - 49%</td>
</tr>
</tbody>
</table>

Keyano College uses the 4-point alpha-numeric grading system for all Certificate and Diploma, Collaborative and University Studies programs as a measure of maintaining consistent grading with other provincial post-secondary institutions.

**Academic Programs (Effective July 1, 2003)**

<table>
<thead>
<tr>
<th>9.0 Grade Scale</th>
<th>Percentage Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>9.0</td>
</tr>
<tr>
<td>Good</td>
<td>8.0</td>
</tr>
<tr>
<td></td>
<td>7.0</td>
</tr>
<tr>
<td>Minimum Pass</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>5.0</td>
</tr>
<tr>
<td>Fail</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
</tr>
</tbody>
</table>

A minimum pass for all Office Administration courses is a grade of 7.

**Trades/Technology and Heavy Industrial Programs (Effective July 1, 1993)**

These programs are graded by percentage marks. MCT courses require a passing mark of 50% in each course and a 60% average. Other programs require 65% in each course.

Exceptions to this policy are noted in individual program details.

**Heavy Industrial Programs (Up to June 30, 1993)**

<table>
<thead>
<tr>
<th>Grade Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
</tr>
<tr>
<td>Above Average</td>
</tr>
<tr>
<td>Average</td>
</tr>
<tr>
<td>Minimum Pass</td>
</tr>
<tr>
<td>Failure</td>
</tr>
</tbody>
</table>

In all programs at Keyano College the minimum course progression grade is a C-.

Exceptions to this policy are noted in the individual program details.
**Grades**

**Other Grades**
- Higher grade for repeated course.
- Lower grade for a repeated course.

**Au - Audited Course**
Assigned to courses where the student is registered as an auditor. It is not calculated in the grade point average.

**Cr - Credit/Challenge Exam**
Assigned when advanced credit has been granted for a course successfully completed at another educational institution and is not calculated in the grade point average or challenge exam has been written.

**De - Deferred Examination**
Assigned to courses where examination was deferred.

**In - Incomplete**
A grade of “IN” or Incomplete, will be assigned in exceptional circumstances only when course work has not been completed by the date grades are due in the Office of the Registrar (course end-date). Failure to complete the outstanding work within 30 calendar days from the course end-date will result in a permanent grade of “F” in Academic and Career programs, and a permanent grade of “0” in Trades/Technology and Heavy Industrial programs.

**Ip - Course In Progress**
The grade “IP” or In Progress will be assigned in courses or programs which do not end within the established semester dates for the academic year. Such programs and/or courses include, but are not limited to:

1. Alternative delivery courses such as Computer Assisted Instruction and Computer Managed Learning courses.

2. Off campus programs in which certain courses may be deferred to subsequent semesters.

If a grade of “IP” is assigned, the course instructor or the Program Chair will provide an expected completion date for that course. If the grade has not been converted to a grade from the four-point scale by the identified date, a grade of “F” will be assigned.

**P or F - Pass/Fail**
Assigned to courses with Pass (P) or Fail (F) as the only grades used. Neither “P” nor “F” are used in calculating a grade point average.

**Pl - Prior Learning**
Prior Learning Assessment (CR prior to 96/97)

**Supplemental Examination**
“Supplemental” under a grade means grade received after Supplemental Examination.

**W - Withdrawal**
Assigned to courses dropped after the two-week penalty-free course change period but before the half-way mark of the term. The grade of “W” will be noted on the transcript but it will not be used in calculation of the grade point average.

**WF - Withdrawal/Failure**
Assigned to courses dropped after the half-way mark of the term. A “WF” grade is calculated as a “0” in the grade point average.

**X - Grade Not Available**

**How to Calculate GPA**
Grades are assigned according to the system outlined for each division. A grade point average (GPA) is calculated according to a formula using the credits assigned to each course and the grade points received. Courses with Pass or Fail as the only grades used are not used in calculating GPA. The calculations used in recording student grades are listed below:

Grade Points (Q Pnts) = Credits x Grade Received

Grade Point Average (GPA) (calculated by term) = Total Grade Points (Q Pnts) Earned

Total GPA Credits Attempted
ACADEMIC POLICIES

ACADEMIC PROBATION
The academic progress of all academic students enrolled in credit courses is reviewed by the Registrar and/or the Program Chair at the end of each term. Students not maintaining a good standing shall be informed of their status in a reasonable period of time.

- Students who maintain a term GPA of 1.7 or higher are students in good standing.

- If a full-time student’s term GPA falls between 1.0 and 1.7 at the end of either the fall or winter semesters, he/she shall be placed on academic probation for a minimum of one term (the next term of active registration).

- If a full-time student’s term GPA falls below 1.0 at the end of any grade reporting period, he/she normally be required to withdraw from the program for a period of one four-month semester.

The conditions under which students are placed on academic probation are not limited to failure to meet the minimum standards for academic progress requirements. Students should review the “Student Rights and Responsibilities” section on page 34.

Students who are placed on academic probation are notified by letter and advised of the requirements to regain good standing as well as available assistance and the consequences of unsatisfactory standing.

OFFICIAL TRANSCRIPT
An official transcript is a cumulative record of all courses completed by students at Keyano College, and is maintained by the Office of the Registrar. This is considered confidential information and will not be released to a third party without the student’s written permission.

To obtain an official transcript, contact the Office of the Registrar, either in person or by phone, and fill out the Official Transcript Request form. Each transcript is $10 plus G.S.T. For an additional $10 plus G.S.T., transcripts can be faxed to other academic institutions. Upon program completion students can request one free official transcript. Official transcripts will not be provided for students with any financial obligation to the College.

STATEMENT OF MARKS
A Statement of Marks is an unofficial list of grades assigned for courses attempted during the current term. Students may access their Statement of Marks online at selfservice.keyano.ca.

REPLACEMENT PARCHMENT
Students can request a replacement certificate or diploma from the Office of the Registrar if the original is lost or missing. There is a charge of $30 plus G.S.T. for each parchment replacement. Replacement parchments are printed quarterly.

GRADUATION FROM ACADEMIC PROGRAMS
Courses required for graduation may be obtained through a combination of full-time or part-time, day or evening study at Keyano College. Satisfactory completion of practical work experience and/or assignments may be required in some programs. To receive a parchment, all certificate and diploma students must complete an Application for Graduation form available from the Office of the Registrar. Upon receipt of the Application for Graduation form, the Office of the Registrar will monitor progress and advise by letter when a student is eligible to graduate. Application for Graduation forms are not held over for the following academic year.

Certificate
Students with a pass grade in each course who successfully complete a program of study of one year or less and obtained an overall Grade Point Average of 1.7 or better shall be issued a certificate.

Diploma
Students who successfully complete a program of study of two years, with a pass grade in each course and have an overall Grade Point Average of 1.7 or better shall be issued a diploma.

ACADEMIC MERIT
Academic students obtaining a cumulative grade point average of 3.5 or higher over their entire program will receive the notation “With Distinction” recorded on their official transcript of marks, except for Office Administration which requires a 4.0 average.
ACADEMIC POLICIES

TRADES & HEAVY INDUSTRIAL CERTIFICATES
Official transcripts and certificates are not issued for apprenticeship students, but those who successfully complete their apprenticeship and pass the examinations required by the Apprenticeship and Trades Certification Branch are granted a certificate of completion of apprenticeship and a certificate of qualification in their trade from the Trades Department.

Students who successfully complete all other Trades programs (with the exception of MCTP, Power Engineering & Process Operations) with a 60% pass mark in each course and a 65% average GPA shall be issued a certificate.

Satisfactory completion of practical work experience and/or assignments may be required in some programs.

CONVOCATION
Keyano College's annual convocation ceremony will be held on Friday, May 8, 2015.

Students who will have completed all program requirements by June 30, 2015 must submit an Application for Graduation to the Office of the Registrar by March 1, 2015 to obtain a certificate or a diploma in their program. The Office of the Registrar will process the Application for Graduation to ensure the student has met all of their program requirements. Graduates are notified by mail of their eligibility and invited to attend the convocation ceremony, along with instructions regarding gowns and guests. In order to attend the convocation ceremony, students must register their attendance with the Office of the Registrar.

Parchments will only be issued once the Office of the Registrar has received an Application for Graduation and checked all the student’s requirements. Parchments will be mailed to the student’s permanent address. Students are also entitled to receive one free official transcript upon program completion, which they can request from the Office of the Registrar.

NOTE: Application for Graduation forms are not held over for the following academic year (July 1 – June 30). Therefore, those students who do not meet their credential requirements must reapply to graduate the following year.

CONFIDENTIALITY
As of September 1, 1999, Keyano College and all post-secondary institutions complied with the requirements of Alberta's Freedom of Information and Protection of Privacy legislation. The Act ensures that individuals have the right to access their own personal information. Colleges must follow the Act’s strict standards for collection, use and disclosure of personal information.

Keyano College collects personal information for the purposes of admission, registration and other activities directly related to its education programs. All applicants for admission/registration are advised that the information they provide, and any other information placed into the student record, will be protected and used in compliance with Alberta's Freedom of Information and Protection of Privacy Act.

The Act also provides for public access to other records held by the College as part of a continued commitment that the public sector should be open, accessible, and accountable to the people of Alberta.
STUDENT RIGHTS AND RESPONSIBILITIES

STUDENT RIGHTS AND RESPONSIBILITY POLICY

It is the student’s responsibility to read the following information. The information contained in this section should guide the student’s conduct while attending Keyano College.

The Student Rights and Responsibilities Policy is not intended to be a legal contract between the students and the College and it cannot override any collective agreement or other legally enforceable contract where there is conflict. In the event any of the procedures that conflict with policies of the Board of Governors, the policies would prevail. These rights and responsibilities apply to all Keyano College credit students. Many rights (2, 3, 5, 10 and 12) and responsibilities (1, 2, 3, 4, 8, 9, 11 and 12) also apply to non-credit students. The Student Rights and Responsibilities Document and Appeal Forms are available from the Counselling Department.

The following rights and responsibilities pertain to all students regardless of race, religious belief, colour, sex, physical condition, ancestry, sexual orientation, or place of origin of the student.

Student Rights

1. The student has the right to a written course outline at the beginning of the course which states the objectives and the content of the course, and the instructor’s expectations regarding attendance, evaluation, and major assignments.

2. The student has the right to notification of major changes regarding classroom procedures and the right to be notified, whenever possible, of class cancellations, time or location changes prior to the class meeting.

3. Where course content allows, the student has the right to reasonable freedom of opinion and expression in the classroom, in assignments, and in exams.

4. The student has the right to be assured that changes to the length of the program subsequent to his/her entry will not extend the program beyond the time specified upon enrollment.

5. The student has the right to seek counselling and academic advising concerning program and graduation requirements, academic regulations, admissions, and transfer; such counselling and advising will occur within a reasonable time frame.

6. The student has the right to expect faculty members to be available for assistance outside of scheduled classes at a time that is mutually agreeable (and preferably during the instructor’s regularly scheduled office hours).

7. The student has the right to confidentiality of his/her records including scholastic transcripts, health records, performance appraisals or critiques, and such documentation shall not be released to third parties without the written permission of the student except where the release of such information without permission is necessary for complying with any legal obligations imposed upon the College, or their release is necessary for the protection of the health and safety of the students and staff of the College.

8. The student has the right to view any record in his/her official College file and the right to add documents to the file which might refute the contents of documents of a disparaging nature.

9. The student has the right to proper and impartial evaluation of his/her performance and the right to request a re-evaluation within timelines and procedures established by the College.

10. The student has the right to accurate information pertaining to program or course information and College academic regulations including the institutional definition of plagiarism and other forms of academic and non-academic dishonesty.

11. The student has the right to have appeal policies and procedures printed in the College calendar and the right to know how to deal with situations that appear unjust.

12. The student has the right to freedom from being subjected to physical, verbal, mental or sexual harassment including any indignity, injury, violence, or unfair accusation and be dealt with in accordance with the Individual Rights policy of Keyano College.

Student Responsibilities

1. The student has the responsibility to respect the rights of fellow students, faculty, staff, administrators and other persons associated with the College.

2. The student has the responsibility to respect other people’s right to health, security, personal preferences and freedom of expression and to be familiar with the Individual Rights Policy of Keyano College.

3. The student has the responsibility to refrain from threatening to subject or subjecting any person to physical, verbal, mental or sexual harassment including any indignity, injury, violence or unfair accusation.

4. The student has the responsibility to observe College and relevant government regulations, policies and procedures regarding responsible conduct within the College environment including conduct toward students, faculty, staff, administrators and property.
STUDENT RIGHTS AND RESPONSIBILITIES

5. The student has the responsibility to be conversant with course content and organization, course methodology and course evaluation methods even when he/she is absent from particular classes.

6. The student has the responsibility to respect the faculty member’s right to determine course content, course objectives, methodology, and evaluation.

7. The student has the responsibility to respect the faculty member’s right to set deadlines for assigned work, to expect assignments to be submitted at the times specified and to establish penalties for failure to comply with deadlines. The student has the responsibility to familiarize him/herself with the expected times and methods used to convey results of assignments, examinations or other evaluations or decisions and to know the timelines set for appeal of the same.

8. The student has the responsibility to conduct him/herself in an appropriate manner and to dress in a manner that reflects the safety requirements of the course consistent with the health and safety practices of his/her chosen field of study.

9. The student has the responsibility to refrain from unduly disturbing, disrupting, or otherwise interfering with studies, laboratories, lectures, work or other activities of fellow students or staff.

10. The student has the responsibility to familiarize him/herself with academic regulations, graduation requirements, and/or program completion requirements.

11. The student has the responsibility to communicate with faculty members or counsellors to attempt to resolve academic and/or personal problems he/she may encounter.

12. The student has the responsibility to know the consequences of plagiarism, fraud, deceit and/or other forms of academic and non-academic dishonesty.

13. The student has the responsibility to know and to comply with College policy as well as the policy of any employer, or host organization of practicum or clinical activities when the student is involved in placement, site visit, co-op or clinical placement on that employer’s work site.

STUDENT MISCONDUCT AND DISCIPLINE

The College reserves the right to take such action as it deems necessary in cases of unacceptable behaviour within a reasonable period of time. Disciplinary action may be taken for both academic and non-academic misconduct, as well as unsatisfactory performance. The following are some explanatory comments about specific grounds for discipline and the penalties involved.

1. Student Attendance

Regular, punctual attendance is necessary for success at Keyano College and on the job after graduation. Students are responsible for attending all learning activities in their courses on a regular and punctual basis. Excessive or inexcusable absences can result in poor or failing grades, loss or reduction of sponsor allowances, and/or probation or suspension. Students are responsible for knowing the attendance policy of their course and/or program.

2. Academic Misconduct

Students are considered to be responsible adults and should adhere to principles of intellectual integrity. Intellectual dishonesty may take many forms, such as:

- Plagiarism or the submission of another person’s work as one’s own.
- The use of unauthorized aids in assignments or examinations (cheating).
- Collusion or the unauthorized collaboration with others in preparing work.
- The deliberate misrepresentation of qualifications.
- The wilful distortion of results or data.
- Substitution in an examination by another person.

Penalties for academic offences may range from a verbal reprimand to dismissal from the College, and in certain circumstances may involve legal action.

3. Practicum and/or Work Placements

Students who participate in practicum placements must follow the policies and regulations of their program and those of the host organization. Students who do not follow the regulations of the host organizations may be removed from the practicum site and be subject to other disciplinary action. Failure in a practicum may result in the students being unable to graduate from the program.
4. Non-Academic Misconduct
The following are examples of non-academic misconduct for which students may be subject to disciplinary action:

- Disruption of any College activity.
- Damage to or destruction of the property of the College, its staff, students, or visitors.
- Threats of any kind.
- Physical or verbal abuse.
- Theft.
- Unsafe practices, whether the risk is to oneself or others.
- Alcohol or drug abuse.
- Harassment.
- Violation of confidentiality requirements of the occupation or profession for which the student is being trained.

STUDENT DISCIPLINE

1. Probation
A student may be admitted as a probationary student or placed on probation if:

- In the opinion of a Program Chair, the student’s classroom behaviour or attendance is unsatisfactory, or
- The student’s GPA is less than 1.7 on the 4-point scale or its equivalent at the end of the semester or academic year, or
- The student’s present or past academic and/or non-academic behaviour warrants probation.

Students will be informed of the conditions and reasons of the probation by the Registrar at the time probation is assigned. Probation may last up to one academic year.

To have probationary status removed, students must satisfy the conditions outlined at the time the probation status was assigned. Students who fail to comply with the conditions of probation may be suspended or dismissed from the course, program, or the College.

2. Suspension
Students may be suspended from a course, an entire program, or the College if:

- The student does not comply with their probation, or
- The student’s GPA is less than 1.0 on the 4-point scale or its equivalent at the end of the academic year, or
- The student’s academic or non-academic behaviour warrants such a sanction.

Depending on the circumstances, a student under suspension may be required to withdraw completely from either a course, an entire program, or the College for a specific period of time of up to one calendar year.

3. Dismissal
Students may be dismissed from a course, an entire program or the College if:

- The student does not comply with the terms of their suspension, or
- The student’s academic performance or non-academic behaviour warrants such a sanction. Depending on the circumstances, a student may be dismissed from either a course, an entire program, or the College for a specific period of time, to a maximum of three years.

Re-admission to the College will be determined by the Special Cases Committee. The recommendation of the Special Cases Committee will be made to the appropriate Vice President

STUDENT APPEALS

Any Keyano student has the right to appeal a final grade, disciplinary action, or other decision that the student feels is in violation of their rights as defined in “Student Rights and Responsibilities” or in any other specific way is perceived to be unfair. In order to appeal, the student must follow the steps as outlined in the Student Appeal Process.

For the purpose of this policy, a “student” is defined as a person:

a. who has submitted an application to the College and wishes to appeal any decision regarding his/her application status or admission ruling;

b. who is registered in any Keyano course

c. who was registered in any Keyano course, but is no longer registered due to graduation, withdrawal, or disciplinary action.

The appeal process must be speedy and fair.
Before starting an appeal, students are urged to review the complete Student Appeal document available at the Counselling Department. They should also study the relevant sections of the Keyano College Calendar and other College documents in order to inform themselves of the validity of their position. Students are also encouraged to seek the assistance of the Counselling Department for help in clarifying the steps in the appeal process and outlining the format of written appeal.

STUDENT APPEAL PROCEDURE

Stage I
Appeal to the Division

1. Stage 1 is to the Division through the following steps: to the instructor, to the chair or coordinator or immediate supervisor and then to the divisional dean.

2. Students must initiate this stage within 10 working days from the time the course instructor releases the results of term assignments, grades or other evaluation results. For non-academic decisions affecting student campus life activities, the student must initiate this stage within 10 working days. For final grades only, the student must initiate this stage within 15 working days from the course end-date.

3. The student shall present his/her complaint orally or in writing to the individual whose decision, grade, action, etc., the student disagrees with. The individual shall respond within two working days.

   Both parties to the appeal are expected to make every reasonable attempt to resolve the matter at this step.

4. If the student is dissatisfied with the individual's decision in item 3, an oral or a written appeal may be submitted to the individual's immediate supervisor within two working days of receipt of the decision in item 3. After hearing both parties, the immediate supervisor, within two working days, shall provide a response to both the student and the individual. The response shall be in the same format (orally or in writing) as the student’s appeal.

Stage II
Mediation

Mediation is an informal problem solving approach utilizing a neutral third party. If the student is dissatisfied with the decision at the end of Stage I, the student shall file a written request for mediation with the Chair of the Student Appeal Committee by completing an Application for Mediation form. The request must be filed within one working day of receipt of the decision from Stage I. The Mediator shall attempt to resolve the issue by confidential consultation with appropriate parties.

Stage III
Formal Hearing by Student Appeal Committee

If a satisfactory resolution is not achieved at Stage II, the student may request a formal appeal hearing before the Student Appeal Committee by completing an Application for Stage III Final Appeal form within five working days of the mediation outcome. Initiation of an appeal at Stage III is a serious matter and should only be done when all other reasonable efforts to resolve the dispute have failed.

The Application for Stage III forms should be accompanied by a copy of the request submitted to the mediator, requesting a formal hearing by the Student Appeal Committee to:

Chair
Student Appeal Committee
Keyano College
c/o Executive Office

The Committee's decision shall be final and binding within Keyano College.
STUDENT RIGHTS AND RESPONSIBILITIES

OFFICIAL STUDENT RECORDS
The official student records shall include at least the following:
- academic records, statements of marks, transcripts, previous transcripts, etc.
- application form(s)
- registration form(s)
- discipline records
- financial aid records
- records of extra-curricular activities (i.e., Students’ Association)

ACCESS TO STUDENT FILES
Policy A
Students shall have the right to review the official records which contain information directly related to them.

Procedure:
Students who wish to review their official records shall apply in writing to the Registrar.

Policy B
The College shall not release any personally identifiable information contained in the official student records without the written consent of the student with the exception that directory information may be released to appropriate government agencies provided those agencies ensure that confidentiality of the information will be protected through aggregation of reported results. The information contained in the student record may be released to parents or legal guardians of the students under 18 years of age.

Procedure:
Students who wish the Office of the Registrar to release information contained in the official student record to any individual, agency or organization, shall advise the Registrar in writing.

ACCIDENTS AND INJURIES
All students are required to immediately report any accident or injury occurring during course-work to their instructor. Provision has been made for coverage under the Workers Compensation Act of Alberta for students enrolled in certain College programs. Students injured while engaging or participating in extracurricular sporting, recreational, social, or personal fulfillment activities which are not a part of a registered program, will not be covered under the act.

STUDENT RESEARCH PROJECTS
Students undertaking research projects and surveys have a responsibility to follow the Keyano College Research Ethics Standards for conducting research projects involving human subjects or the use of information about human subjects. Projects must meet a minimum standard of acceptability with regard to ethics and research quality. These standards apply to internally generated research projects conducted by staff, or students, and externally generated research projects using Keyano College students or staff as a sample group. A shortened version of the Research Ethics Standards may be obtained from instructors or the Chair of the Research Ethics Committee.

Phone (780) 792-5623 for more information.

Penalties for academic offences may range from a verbal reprimand to dismissal from the College, and in certain circumstances may involve legal action.
The Office of the Registrar provides guidance and information for students who are in need of financial assistance to attend post-secondary studies. To obtain information, students can telephone, or drop by in person to the Office of the Registrar. Financial Aid information can also be found at the College website: keyano.ca.

FUNDING OPTIONS

GOVERNMENT STUDENT LOANS
The federal and provincial governments of Canada provide financial aid to help Canadian citizens or permanent residents to pursue post-secondary education. This aid is provided in the form of loans (and grants if the student is deemed eligible) on the basis of demonstrated financial need. The level of financial assistance received will depend on evidence of financial need and on personal circumstances. Students must apply through the province in which they are considered a resident (the last province in which they spent twelve consecutive months and were not a full-time student). All Alberta residents who apply for a student loan will be considered for Alberta and Canada student loans as well as grants and bursaries.

Government student loans are interest-free while students are in full-time attendance at a post-secondary institution. A confirmation of enrollment form must be completed for previous loans to maintain their interest-free status. Copies of these forms are available in, and must be signed by, the Office of the Registrar to confirm full-time study. Repayment of student loans begins six months after you are no longer a full-time student. The interest rate and terms of repayment are set at the time of consolidation.

Students who need to apply for a loan should apply early as processing can take four to six weeks and must be completed prior to the start of the program.

Application forms for Alberta residents can be obtained from your local Canada Alberta Service Centre (C.A.S.C.) or through the Office of the Registrar. Residents of most provinces can apply electronically. Links to provincial loan websites can be found at keyano.ca/current-students/scholarship/govloans.

After the loan application is processed a Notice of Assessment will be sent to explain the details of how the loan will be distributed for the academic year (amount of loan, amount of grants/bursaries and scheduled release dates). It is possible to appeal your assessment if you feel additional information should be considered. Contact the Office of the Registrar or your nearest Canada Alberta Service Centre for further information. Any loan documents received by the student must be signed by the Office of the Registrar to confirm full-time study (unless it is signed electronically). Program and period of study will also be verified. Once signed, the student must take the loan documents (along with two government issued identification documents) to the post office to be processed.

STUDENTS WITH A DOCUMENTED DISABILITY

Student Loan – Schedule 4: Completing the Schedule 4 allows students to access additional supports and funding. There are two options for funding:

1. Canadian Access Grant for Student with Permanent Disabilities: a grant of up to $2000 each year to help students meet education and living costs.

2. Canadian Study Grant for the Accommodation of Students with Permanent Disabilities: used to help students receive the appropriate supports and allows them to obtain the adaptive technology that they require.

Any student with a disability applying for a student loan may contact the Disability Support Services: Learner Assistance Program for help filling out a Schedule 4.

PERSONAL BANK STUDENT LOANS
Most major banks offer loans or lines of credit for full-time students. Although interest is charged and payable while attending school, this is an option for students who are not eligible for government student loans.
SPONSORSHIPS
The agencies listed below may provide financial assistance towards educational costs. It can take several months to obtain approval for sponsorship so it is recommended that students begin the process well in advance so it's in place by the start of their studies.

First Nation Education Authority
Individuals may qualify for funding through their First Nation education authority. Contact your First Nation Education Counsellor for further information.

Freehorse Family Wellness Society
Bill C-31 and Status Indians whose bands do not administer training funds may be eligible for sponsorship for post-secondary or UCEP training. Call the Freehorse office in Edmonton at 1-800-411-9658 or further information can be found at their website: www.freehorse.org

Métis Nation of Alberta
Individuals who are members of the Métis Nation and are enrolled in career programs may be eligible for funding. Contact the Project Development Officer at your nearest Region Office; in Fort McMurray contact the Fort McMurray Employment Services office at (780) 714-3029.

Passport to Success Program
Eligible applicants must be Keyano College students who are single parents with dependent children. Applicants must be enrolled in a certificate or diploma program and must be unable to access student loan programs without undue hardship. Please note that the amount of the award is intended to assist applicants with tuition and living costs and is based upon individual circumstances and the applicant’s other avenues of support. For information and an application form please contact Counselling Services in person or by phone: (780) 791-8943.

Emergency Student Loan/Vouchers
Funds are available to students who experience emergency costs that are beyond their control. Depending on the situation the student can receive a loan to cover the emergency cost or a voucher. Please contact Counselling Services in person or by phone for more information: (780) 791-8934.

HOT LUNCH PROGRAM
Keyano College Lounge bucks are available to students to purchase a hot lunch. This program supports students who are short on funds and require support to purchase food. Fruit and snack items are available throughout the College for students. Please drop in to Counselling, Academic Office, Health Nurse, or Students’ Association to receive Lounge bucks.

ALBERTA WORKS FUNDING
Alberta Works Funding enables students to pursue part-time and full-time studies while being funded by the Alberta Government. This program is designed to help people develop their employability skills so they are able to secure full time employment. You must be at least 18 years of age, have no previous training, be a resident of Alberta, and show financial need. In some cases, Employment Insurance recipients may be eligible.

Deadlines to apply for funding:
Fall semester - July 1
Winter semester - November 1

In order to be eligible for this funding, students must have been out of school for more than 12 consecutive months and over the age of 18 years. They must show financial need and be a Canadian citizen or permanent resident. Employment Insurance clients may be eligible if enrolled.

DISABILITY RELATED EMPLOYMENT SUPPORTS (DRES)
DRES is a program that helps Albertans with disabilities address barriers that may prevent them from being successful in the workplace or at school.

The program offers support in four areas:
1. Workplace Supports
2. Job Search Supports
3. Education Supports and

At Keyano College DRES provides educational and adaptive technology supports for students. Some of the supports available are tutors, note taker, academic strategist sessions, reading software, digital recorders and many other adaptive technology resources. Students attending Keyano College in need of these supports may contact the Disability Support Services: Learner Assistance Program in the Counselling department at (780) 792-8934.
Keyano College's Student Awards program provides financial support to eligible students in recognition of their academic achievement and financial need. The program is made possible through generous gifts from individual and business donors, community organizations, matching grants from the provincial government and the continuing efforts of the Keyano College Foundation.

VALUE OF AWARDS
The value of Keyano College's endowed awards is dependent upon the amount of interest earned each year. Therefore, the award amount is approximated. The College reserves the right to make any changes deemed necessary, without notice, including the cancellation of specified awards.

AWARDS, BURSARIES & SCHOLARSHIPS
Excellence Scholarships are for high school students within the Municipality of Wood Buffalo recognizing outstanding academic achievement for students entering their first year, full-time studies in a Keyano College post-secondary program in the fall semester. For more details on how an 80% average in the five high school core subjects can earn students free tuition, please contact the Financial Aid & Awards Coordinator at (780) 791-4894. Deadline to submit official transcripts is August 11, 2014.

Entrance Awards are for local high school students entering first-year, full-time studies in a Keyano College post-secondary program in the fall semester.

Exiting Awards are awards for students who are required to leave Keyano College in order to complete their program of studies (which is not available at Keyano College), at another post-secondary institution.

FALL AWARDS PROGRAM
Scholarships are cash awards given primarily in recognition of excellence in academic achievement. Keyano College scholarship recipients must have completed at least 80% of a full course load in their programs for the year the scholarship is assessed. International (Visa) students are eligible to receive scholarships.

Bursaries are cash awards given to students on the basis of financial need and satisfactory academic achievement (minimum GPA of 1.7 or equivalent). Secondary requirements such as community/College involvement may also be considered. International (Visa) students are not eligible to receive awards based on financial need.

Prizes are awards given in recognition of noteworthy accomplishments in a designated area of study. Prizes may be in the form of books, plaques, medals, or other gifts provided by the donor.

Deadline to apply for Fall Awards: September 30, 2014.

ATHLETIC AWARDS
Athletic awards are awarded to students who participate in ACAC and league sports. Please contact the Athlete Services Manager for more information.

STUDENT ATHLETE ENROLLMENT BURSARY
Athletes on Keyano College volleyball, basketball, hockey and soccer teams may qualify to receive a Student Athlete Enrollment Bursary.

All Awards, Scholarships & Bursaries can be viewed on our website at keyano.ca
STUDENTS’ ASSOCIATION

STUDENTS’ ASSOCIATION OF
KEYANO COLLEGE (SAKC)
Clearwater Campus
Room 178
Tel: (780) 791-4877

Hours of Operation
Monday to Friday:
8:30 a.m. – 4:30 p.m.

GENERAL COUNCIL
General Council is the governing body of the SAKC. Every big decision goes through the General Council, and the SAKC Executives are accountable to Council.

General Council is comprised of:
• Program Representatives
• Academic Council Representatives
• The Executive Committee; and
• The Student Board of Governors Representative (SAKC President).

General Council meets once a month. If you want to get involved on General Council come down to the SAKC offices in the Used Bookstore (Room 178) for more information.

EXECUTIVE COMMITTEE
The SAKC Executives are in charge of the day-to-day business of the Students’ Association. The Executive Committee is made up of the following people:

• President
• Communications Vice President
• Student Life Vice President

Elections for executive positions are held before April 15th of the academic year.

HEALTH & DENTAL PLAN
The Students’ Association of Keyano College is proud to provide an extended Health & Dental plan to eligible students at Fort McMurray campuses. Students already covered by an alternate plan (through parents, work or spouse) may opt out by completing the required waiver form and providing proof of alternate coverage prior to the deadline date to the Office of the Registrar. Students on the plan may also purchase coverage for a spouse and/or dependents through the Students’ Association Office. See page 19 for additional information.

USED BOOKSTORE
The SAKC operates a Used Bookstore located in the SAKC Office. Books are sold on a consignment basis, with the students selling the books setting the prices. This is a great place to shop for textbooks at a reduced cost as well as make a little extra money selling already used books.

The Used Bookstore also offers:
• Photocopying and Faxing
• City Bus Passes
• Survival Guide

LOCKERS
Lockers are available for students to rent for a nominal fee by registering at the SAKC Office. Locks are supplied and are available on a first come, first served basis.

KING’S LOUNGE & PATIO
King’s Lounge & Patio is owned and operated by the Students’ Association. It is the home of low-priced food and beverages to complement the student budget. The SAKC also uses this space to host various events throughout the school year. It is staffed by students each working a maximum of 20 hours/week around their class schedules. If interested, bring your resume and class schedule to the SAKC offices.

Clearwater Campus
Room 179
Tel: (780) 791-8978

Hours of Operation
Monday and Tuesday: 8:30 a.m. – 10 p.m.
Wednesday and Thursday: 8:30 a.m. – 11 p.m.
Friday: 8:30 a.m. – 12 a.m.
Saturday and Sunday: Closed
ATHLETICS

All registered Keyano College students receive complimentary access to all Huskies Home Games. In addition, these registered full-time Keyano College students have the opportunity to try-out and compete within the following intercollegiate sporting opportunities:

- Men’s and Women’s Volleyball
- Men’s and Women’s Soccer
- Cross Country Running
- Men’s Hockey
- Men’s and Women’s Basketball
- Men’s and Women’s Futsal

To exercise the student right to tryout, intentions must be revealed to the program Head Coach or Athlete Services Manager in the first week of classes in September, or the first week of January for the sport of Futsal.

The Huskies are members of the Alberta Colleges Athletic Conference and compete against 17 other institutions across Alberta and Saskatchewan. Athletes who are members of the cross country, volleyball, basketball, hockey and soccer teams are eligible for a Jimmie Condon Award and/or a Student Athlete Enrollment Bursary.

To be eligible for the Jimmie Condon Award ($900 per semester) athletes must attain a minimum GPA of 2.0. Huskies are also eligible to receive the Student Athlete Enrollment Bursary (minimum GPA of 1.7) in the amount totalling the difference between enrollment fees (tuition, recreation, registration and SAKC fees) and their Jimmie Condon Scholarship Award. Athletes not eligible for the Jimmie Condon award (i.e., out of province students) qualify to receive 100% of enrollment costs. All athletes are eligible to apply for additional scholarships and awards.

Additional information can be obtained by contacting:
Athlete Services Manager
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
Tel: (780) 791-4852
Fax: (780) 715-3929
Email: athletics@keyano.ca

BOOKSTORE
Clearwater Campus
Tel: (780) 791-4960
Fax: (780) 791-4998
E-mail: bookstore@keyano.ca
Website: keyano.ca/current-students/bookstore

Hours of Operation (subject to change)
Monday to Thursday: 7:30 a.m. to 6:30 p.m.
Friday: 7:30 a.m. to 4:30 p.m.

The Bookstore provides textbooks and supplies, clothing and gifts, general reading and special order services. It also provides stationery supplies, canteen items and Keyano College sportswear and souvenirs.

Student printing credits can be purchased at the bookstore (colour copies are $0.39 and black and white are $0.10). User accounts are also available for visitors and continuing education.

COUNSELLING SERVICES
Clearwater Campus
Room 167
Tel: (780) 791-8934
Fax: (780) 792-5738

Hours of Operation
Monday to Friday: 8:30 a.m. – 4:30 p.m.

Counselling Services provides a wide range of specialized counselling services to prospective and registered students. The following services are provided on a free and confidential basis.

Personal Counselling is designed to provide a supportive environment for students needing help to resolve personal, or social issues and situations.

Career Counselling assists students to explore their career and educational options. Services are available to identify skills, interests, abilities, and to learn about career decision making.

Academic Counselling Services include individual assessment and course selection to help students achieve academic success.

Walk-in Counselling is available on a daily basis; however, to be sure a Counsellor is available, an appointment is strongly suggested.
STUDENT AND COLLEGE RESOURCES

DISABILITY SERVICES: LEARNER ASSISTANCE PROGRAM
Clearwater Campus
Room 167
Tel: (780) 791-8934
Fax: (780) 792-5738

Hours of Operation
Monday to Friday: 8:30 a.m. – 4:30 p.m.

The Learner Assistance Program (LAP) provides educational services to students with disabilities.

It is the responsibility of the student to self-identify at the Disability Services office that they have a disability.

Services for Students
- Initial screening interview
- Classroom Support
- Individual Service Plan outlining educational accommodations
- Learning Strategy Sessions
- Assistance with request for funding for assessment and exceptional educational costs
- Adaptive Technology
- Writing Centre
- Counselling (educational, self-advocacy, career, and financial)
- Academic advising
- Consultations with learner, instructor, and disabilities counsellor

Confidentiality
Information regarding a student’s disability is confidential. Although faculty must be aware that a student requires accommodations, they will only receive specific information about the nature of the disability at the student’s request. Information will not be released about a student’s disability without his/her written authorization.

FOOD SERVICES
Clearwater Campus
Tel: (780) 791-4878
E-mail: ovation.catering@keyano.ca

Hours of Operation
Monday to Friday: 7:30 a.m. – 2:30 p.m.

Food Services is located in Elements Dining at the Clearwater Campus.

Breakfast and lunch service is available, and carry away microwaveable meals as well as daily specials and a full line of hot and cold beverages. Catering for large and small functions is available. www.keyano.ca/catering For part-time student employment opportunities, please see the manager with your resume. There is no meal plan for students; food is paid for on an individual basis.

HEALTH SERVICES
Clearwater Campus
Next to Bookstore
Tel: (780) 791-4808
Fax: (780) 715-3944
E-mail: health.services@keyano.ca

Hours of Operation
Monday to Friday: 8:30 a.m. – 4:30 p.m.

The College Nurse provides confidential walk-in, on-campus health-care that includes health education and promotion with a wellness focus.

Services include:
- assessment and nursing care for all illnesses
- health education, health counselling and promotion
- first aid and emergency treatment
- referrals to doctors, dentists, etc.
- pregnancy testing
- blood pressure monitoring
- classroom presentations
- blood sugar testing
- injections as prescribed by a doctor (vitamins, etc.)
- assessment of and possible provision of short term procedures (dressing change, suture removal, etc.)

Health Services on campus are free to students. Students with medical problems are encouraged to inform the nurse so that she may assist them more effectively should a problem arise. It is the student’s responsibility to ensure that he/she has valid coverage under a provincial health plan. Students who need assistance in registering with this plan are encouraged to see the health nurse or call Health Link Alberta at 1-866-408-LINK (5465) for assistance with applying for Health Care.
The Keyano Theatre & Arts Centre has been the centre for arts and culture in Fort McMurray for over 35 years. Keyano Theatre & Arts Centre boasts two outstanding theatrical venues: the 600-seat Mainstage and the 200-seat Recital Theatre.

Keyano Theatre Company (KTC) offers a four-play subscription season directed, designed and managed by professional artists while engaging our own community actors. With an emphasis on producing a quality product while offering patrons a wide variety of performances, Keyano Theatre Company will continue to present exciting entertainment.

Keyano Theatre & Arts Centre also features the Syncrude Arts Alive series with outstanding performances throughout the year. Past performers include such artists as Michelle Wright, Rick Mercer, Ron Sexsmith and George Canyon. Join us each month (Sept to June) for Reel Performances, as we present special screenings from the Toronto International Film Series (tiff).

There are many volunteer opportunities with The Keyano Theatre and KTC, onstage, behind the scenes and in our lobby during performances. Drop by our office or call (780) 791-4930 for more information.

Tickets for our performances are available at the Keyano Box Office located in the Theatre lobby or by calling (780) 791-4990. For online purchases and information about upcoming shows visit our website at: keyano.ca/theatre.

The Library offers research help, quiet study space, and computer labs for student use. The Library also offers the following resources:

- Books, magazines, print and online journals/articles
- One-on-one research help
- Newspapers, videos/DVDs (library use only) and CDs to borrow
- Laptops for students
- Computers, printing, photocopying, scanning

Online and off-campus services:
- Online database searching (newspapers, magazines and journal articles)
- Library catalogue
- Renew your books
- TAL (The Alberta Library) Card

Library services are free to Keyano College students with a valid student ID card. Fort McMurray residents can borrow from the Library using a TAL card.

The Office of the Registrar provides academic support services to students, faculty, administrators and staff through supporting the mission of Keyano College. We are committed to maintaining the confidentiality, integrity, and security of students' academic records. In addition to housing and maintaining student academic records the Office of the Registrar offers the following services:

Academic Advising
Student Advisors are available to provide guidance to students seeking information on credit programs, admission requirements, and how to apply for admission. The advising team also offers assistance in choosing courses and transferability of courses and programs.

Career Services
The Career Services Department offers services and resources to assist all Keyano College students in making transitions to, and within, the world of work. Career Services provides resources, programs and services to students, alumni and employers to facilitate the career decision-making process and to connect employers with students and alumni.
Co-operative Education
Students can become part of the most successful career-launching programs in Canada: Earn-while-you-learn through Co-op Education. In the Co-operative Education program, students alternate semesters of academic study with periods of paid employment in a position in industry, government, or other organization that is related to each student's interests and field of study. Work terms of 4, 8 or 12 month durations, depending on the program of study, become an integral part of the student's education. Co-operative Education links education to employment.

Students benefit by gaining paid relevant work experience, connections for future permanent employment, hands-on information regarding their career choice, and the development of personal confidence to become successful individuals.

The Cooperative Education Program includes the following programs:

Business Administration ....................... pg. 63
Environmental Technology ..................... pg. 71
Office Administration ........................... pg. 76

Students who successfully complete the specified number of co-op work term courses and work terms receive nine credits per work term and a Co-operative Education Designation on their diploma.

Admission Requirements
Students must be accepted into their program of study prior to applying for the Co-operative Education program. The deadline for application is approximately two weeks after the beginning of the fall semester. Students must complete an application form and participate in an interview to determine acceptance into the program. Students must maintain a GPA of 2.0 or higher and complete all first year courses prior to their first work-term to continue in the Co-op program.

Upon acceptance into Co-operative Education, students pay their Co-op fees plus any other associated fees (please refer to the College Fee Schedule). The Co-op Education Coordinator will mentor students through a series of mandatory workshops and assist students to secure appropriate paid work placements with approved employers. Upon successful completion of the program requirements designed to build appropriate workplace skills and long term career success, every effort will be made to secure meaningful and program-related work placements for all students. Students may be required to undergo a competitive interviewing process or they may be placed with employers. The final selection is at the discretion of the employer. The College will make a "best effort" to assist all Co-op students to secure approved work placements of the required duration; however, it is not guaranteed.

Student Awards, Scholarships, Bursaries & Student Loans
The Financial Aid and Awards Coordinator is available to provide guidance and information to students about our different funding options as well as our Student Awards.

Transcripts
Academic transcripts are maintained by the Office of the Registrar. Transcripts can be issued upon receipt of a signed written request. The Office will release official transcripts only when students have met all their financial obligations to Keyano College.

Confirmation of Enrollment Letters
Students may obtain a letter from the Office of the Registrar verifying their enrollment as documentation for student discounts, insurance, loan deferments, or other purposes. The request must be made in writing and must indicate the student's name, address, phone number, and student identification number, as well as the information to be released, the reason for the release, and the location to which the letter should be sent.

The Office of the Registrar also:
• Processes Credit and Continuing Education registration (drop/add)
• Processes address and name changes
• Prints fee assessments and student schedules
• Provides replacement T2202A's for attendance prior to 2006
• Provides parchments and parchment replacement
• Processes Applications to Graduate
• Monitors end of term grade process
• Coordinates yearly convocation
STUDENT AND COLLEGE RESOURCES

SECURITY SERVICES
Clearwater Campus
Room 153
Tel: (780) 791-4911 or pick up any red telephone for direct access to Security.

Security Officers can be reached 24 hours a day for information regarding any of the services listed below:
- General Information
- Lost & Found
- Access Control
- Complaint Investigations
- Public Safety
- Emergency Medical Transportation
- Safewalk Program
- Parking Information
- Personal Security Counselling

The goal of Security Services is to provide a safe and secure environment for students and staff.

Parking
All students using College parking facilities must purchase a parking permit. Daily permits are available from dispensers located in the general parking lots at the cost of two dollars per calendar day. Information and applications for term and yearly permits are available from Security Services.

SKILL CENTRE
Clearwater Campus
Room 119
Tel: (780) 792-5620
Skill@keyano.ca

The SKILL Centre is a learning space in the Clearwater Campus at Keyano College where students can gather to share ideas, collaborate on projects, get new perspectives on learning from our tutorial staff or make use of the Centre's educational resources.

Tutorial Assistance
The goal of the tutoring program is to foster a student's ability to learn effectively and independently. Students registered at Keyano College are welcome to drop by the SKILL Centre to visit with any of our tutors to discuss their academic concerns.

Tutors are available:
Monday to Friday 8:30 a.m. – 7:00 p.m.,
Saturday 10:00 a.m. – 2:00 p.m.

Individual and Group Study Space
The SKILL Centre is open for independent study during regular College hours. The Centre offers a large common room, individual study rooms, and a multi-media room equipped with a SMART board for small group use.

Peer Tutor Program
Peer tutors are an integral part of the tutoring team in the SKILL Centre. Peer tutors are chosen from Keyano's student body based on academic achievement and instructor recommendation. Peer tutors work on a part-time basis scheduled around their coursework. Please drop by the SKILL Centre if you are interested in employment as a peer tutor.

Facilitated Study Groups
The SKILL Centre can help students to form and conduct effective study groups. There is a conference room in the SKILL Centre that can be booked for group use. Tutors are available to support your study groups with course content and collaborative learning techniques. Drop in to the SKILL Centre to discuss how we might assist you.
STUDENT AND COLLEGE RESOURCES

STUDENT RESIDENCES
Keyano College provides both individual and family accommodation for full-time students.

Note: A $100 refundable security deposit and a letter of assessment from the College showing payment of registration fees are required with an application for student housing.

Single Residence Clearwater Hall
Single Student Residence Life Office
9809 King Street
Fort McMurray, AB T9H 1L3
Tel: (780) 791-4929 or 791-4926
Fax: (780) 791-4880

- Located on and connected to Clearwater Campus; easy access to Recreation facilities and Library.
- 20 Furnished apartments – 6 individually locked bedrooms.
- 20 Furnished Single Housing Townhouses located at our Riedel Location.
- 4 Furnished Single Housing Apartments located at our Riedel Location.
- 1 Furnished 6 bedroom Townhouse located at our Penhorwood Location.
- First come first served – apply early!
- Students must bring their own blankets/towels/dishes/personal items.
- Parking: $40 per month with plug-in, $30 per month non plug-in. Parking is on a first come first serve basis.
- Laundry facilities are located on the main floor of the Residence. They are run by Smart Cards, so no coins are used.
- Rent is paid by Semester of $1,952 and a damage deposit of $488.
- Rent for a Credit Program (short term) is $488/month and a $488 damage deposit.
- Rent for a Continuing Education Program (short term) is $750/month and a $488 damage deposit.

FAMILY RESIDENCE
Riedel / Penhorwood Place Residence Life Office
9809 King St. Fort McMurray, AB T9H 1L3
Tel: (780) 791-4926 or (780) 791-4928
Fax: (780) 791-4880

Riedel Place
Riedel Place is the Keyano College Family Residence Complex and is situated at 8820 Franklin Avenue, one-and-a-half kilometres from the Clearwater Campus. It is on a main city transit route and is within walking distance of schools, shopping facilities, restaurants and other amenities. Riedel Place has a total of 104 units and is comprised of two and three-bedroom townhouses and one and three-bedroom apartments. Each unit contains a stove and fridge.

- Accommodation is assigned from a priority waitlist.
- Students must be registered in their program prior to applying for housing.
- Students are advised to apply for housing well in advance of their program start date.
- A full month's rent, plus a damage deposit equivalent to one month's rent, is required prior to moving in.
- Students are required to complete an application form, provide a landlord reference and attach a copy of their assessment sheet from the College showing that they have paid the registration fees for their program.
- Students combined income must be equivalent to $70,000 or less to qualify.
- Students are responsible for power, cable and telephone.
- Laundry facilities are located within the Riedel Complex.

Penhorwood Place
Penhorwood Place is situated at 9914 Penhorwood Street, approximately a half kilometre from the Clearwater Campus. It is within walking distance of schools, shopping centres, restaurants and other amenities. Penhorwood Place has a total of 64 units and is comprised of two and three-bedroom townhouses, with and without garages. Units without garages have basements. All units are unfurnished; however, each unit comes with a washer, dryer, fridge and stove.

- Accommodation is assigned from a priority waitlist.
- Students must be registered in their program prior to applying for housing.
STUDENT AND COLLEGE RESOURCES

• Students are advised to apply well in advance of their program start date.

• A full month’s rent, plus a damage deposit equivalent to one month’s rent, is required prior to moving in.

• Students combined income must be equivalent to $70,000 or less to qualify.

• Students are required to complete an application form, provide a landlord reference and attach a copy of their assessment sheet from the College showing that they have paid the registration fees for their course.

• Students are responsible for all utilities.

Please contact the Housing Department for current rates and availability.

SPORT & WELLNESS DEPARTMENT
The Keyano College Sport & Wellness Department is housed in the Syncrude Sport & Wellness Centre.

It is home to Huskies Athletics, Alberta Sport Development Centre, Be Fit for Life Centre, Shifting to Wellness, and provides all the sport and fitness programming for staff, students and community within the Sport & Wellness Centre.

SYNCRUDE SPORT & WELLNESS CENTRE
Access & Membership
Clearwater Campus
Tel: (780) 791-7792
Website: keyano.ca/sport-wellness

Hours of Operation
Monday to Friday: 5 a.m. – 11 p.m.
Saturday & Sunday: 8 a.m. – 10 p.m.
Holidays: Please see program guide or visit keyano.ca/sport-wellness.

The Syncrude Sport & Wellness Centre (SSWC) is a multi-use sport and wellness complex situated on the Clearwater Campus of Keyano College. The Centre welcomes students, staff and faculty along with local residents and community visitors. We are proud to be the home of Huskies Athletics.

Within the Centre the Sport & Wellness Department provides people with quality and diverse sport and wellness opportunities through education, training, programming and facilities. They provide a mixture of structured and casual sport and wellness opportunities that embrace the needs of Keyano College, residents of the Regional Municipality of Wood Buffalo (RMWB), as well as local, regional and provincial sporting organizations. The Sport & Wellness Department is committed to:

• Providing a safe and welcoming environment within our facility.

• Providing programs and services that promote individual and community development.

• Providing adult and youth programming initiatives that promote healthy and active lifestyles.

• Providing high performance training for those athletes wanting to pursue athletics at an elite level, and

• Continuing the commitment of Keyano College to provide excellent education training and services.

Full-time credit students wishing to activate their membership are required to provide evidence of their full-time status as well as their student card for programming. Part-time credit students are required to pay an additional fee for their membership following the provision of evidence of enrollment and presentation of their student card.
REGIONAL PROGRAMS

Keyano responds to the educational requests from the communities within our region. The adult Learning Centres in Fort McKay, Gregoire Lake, Janvier and Conklin offer Academic Foundations, College Preparation and other programs to meet local education and training needs. Each regional Learning Centre is also a recognized eCampusAlberta Community Access Point (CAP site) offering various programs via online delivery.

Conklin Learning Centre provides a bright, friendly environment for learning. It is designed to support plenty of individualized tutoring and small group work among qualified staff and students enrolled in daytime programs in upgrading and career and trade preparation programs. In the evenings it operates as a CAP site for community members interested in online courses through eCampusAlberta, ed2go and other post-secondary institutions. The public is always welcome to visit and to explore career and education opportunities. Employment training services are being expanded this year to support the needs of the increasing work site population.

Janvier Learning Centre is located within the beautiful log community multiplex. It has plenty of room to operate daytime upgrading, career and trade preparation, and employment training programs. Small class sizes and supportive staff are ideal for face to face learning opportunities. The Janvier Learning Centre is a CAP site and the community is welcome to visit and to explore career and educational programming or participate in online courses through eCampusAlberta, ed2go and other institutions.

Gregoire Lake Learning Centre is located on the reserve lands of Fort McMurray First Nation #468 on the shores of the Gregoire Lake. Experienced instructional staff support students with highly individualized instruction and tutoring. Community members from both Fort McMurray First Nation #468 and the nearby community of Anzac are welcome to attend daytime upgrading classes. As this is also a CAP site, visitors and community members are welcome to visit during either day or evening hours to obtain information related to career and employment programs or to pursue online courses through eCampusAlberta, ed2go and other online institutions.

Fort McKay is home to the Dorothy McDonald Learning Centre. The friendly and supportive staff wholeheartedly embrace the community motto “Working For A Better Tomorrow.” Experienced and knowledgeable staff provide face to face instruction in daytime upgrading, career and trade preparation, and employment training programs. The Learning Centre in Fort McKay is a CAP site and the community is welcome to visit and to explore career and educational programming or participate in online courses through eCampusAlberta, ed2go and other institutions.

For further information about the facilities or programs offered at the regional centres, contact:

Janet Lowndes
Chair: Aboriginal Education
School of Career and Education Access
Tel: (780) 791-8967 or (780) 791-4982

FORT CHIPEWYAN CAMPUS

Keyano College has a strong commitment to Aboriginal education and has been involved with the community of Fort Chipewyan since 1976. Credit instruction is offered principally in the adult upgrading programs of Academic Foundations and College Preparation. Post-secondary credit courses may also be offered as the need arises in other areas, such as, Business Administration, Early Childhood Development, Health Care Aide, Office Administration, as well as a Trades Pre-Employment Carpentry Program. Short non-credit general interest courses are delivered each semester. Community driven programming plays a key role in enhancing educational opportunities and developing capacity in the community of Fort Chipewyan. The Campus is also a CAP site eCampusAlberta.

For further information regarding Fort Chipewyan Campus, contact:

Marion Gariepy
Acting Chair, Fort Chip Campus
School of Career and Education Access
Tel: (780) 697-3767

ADULT LITERACY PROJECTS

Keyano College has provided community literacy development to Fort McMurray and region for a number of years. These services are offered free through the Write Break Adult Literacy Project, (780) 791-8943 in Fort McMurray and the WRITE ON! Project in Fort Chipewyan, (780) 697-3767.
Keyano College's School of Career and Education Access is committed to the highest standards of professional programming, reflecting industry needs and educator best practices. In collaboration with partner institutions and national industry organizations, the School of Career and Education Access offers quality, accredited programs leading to nationally recognized professional certifications.

Programs & Services include:

- Computer Training
- Construction Management
- Contract Development & Administration
- CSTS/OSSA/WHMIS/DAT/GED
- Dance/Music/Art/Photography
- English as an Additional Language
- Maintenance Asset Planning
- Maintenance Management Professional
- Occupational Health & Safety
- Online Learning
- Personal Enrichment
- Primavera
- Professional Bookkeeping
- Professional Business Communications
- Project Management
- Strategic Leadership in Action
- Testing Services
- University of Alberta MBA
- Workplace Trainer

These programs range in length and are offered on a part-time basis to all adults 18 years of age or older, unless specifically advertised for children.

To view the complete School of Career and Education Access Calendar go to keyano.ca/ConEd.

LANGUAGE INSTRUCTION FOR NEWCOMERS TO CANADA (LINC)

What is LINC?

- LINC is an English language-training and settlement program funded by Citizenship and Immigration Canada (www.cic.gc.ca) that is offered at Keyano College

- LINC is designed to assist in the process of cultural, social, and economic understanding to help newcomers integrate more quickly and easily into Canadian society

- Keyano College currently offers part-time LINC instruction from Low Beginner to Upper Intermediate levels (Canadian Language Benchmark levels 0-5)

Who Can Take LINC?

- Permanent Residents or Convention Refugees, 18 years or older

How to Get Started?

- Call (780) 792-5706 or visit the School of Career and Education Access Office at Keyano College to book an appointment for an English language assessment.

About Classes:

- Classes are 12 hours a week and are offered in the mornings, afternoons, and evenings (Monday – Thursday)
- New students accepted into classes on the first Monday of every month
- Class sizes are limited
- Classes focus on the development of English speaking, reading, writing and listening skills
- Classes also include field trips, guest speakers and the sharing of cultures

Curriculum:

The LINC Program uses a theme-based curriculum. Themes include information about Canada in the following areas:

- Employment
- Education
- Food and nutrition
- Consumer information
- Housing and neighbourhood issues
- Health care
- Recreation and entertainment

For more information, please email English@keyano.ca or call (780) 792-5706

School of Career and Education Access
Clearwater Campus
Room 157
Tel: (780) 715-3903
Fax: (780) 791-4868

Hours of Operation
Monday to Thursday: 8:30 a.m. – 7:30 p.m.
Friday: 8:30 a.m. – 4:30 p.m.
Saturday: 7:30 a.m. – 2:30 p.m.
Online programs include:

Academic upgrading and university transfer courses are offered online through eCampusAlberta.

For a complete list of programs see: ecampusalberta.ca

eCampusAlberta has merged its operations with the former Alberta-North. Services that were formerly offered by Alberta-North continue to be offered through eCampusAlberta.

As a former Alberta-North member, Keyano College manages Community Access Point (CAP) sites in Fort Chipewyan, Fort McKay, Janvier, Gregoire Lake, and Conklin. These sites provide a network of educational services and programs to northern Alberta communities through distance education technology.

Learners in northern Alberta are supported by CAP sites in the following communities:

- Athabasca
- Atikameg
- Barrhead
- Beaver Lodge
- Bonnyville
- Boyle
- Cadotte Lake
- Calling Lake
- Cold Lake
- Conklin
- Driftpile
- East Prairie
- Fairview
- Faust
- Fort Chipewyan
- Fort McKay
- Fort Vermillion
- Fox Creek
- Fox Lake
- Frog Lake
- Garden River
- Gift Lake
- Grande Cache
- Gregoire Lake
- Grouard
- High Level
- High Prairie
- Hinton
- Hythe
- Janvier
- John D’Or
- Lac La Biche
- La Crete
- Loom Lake
- Manning
- McLennan
- Paddle Prairie
- Peace River
- Peavine
- Peerless Lake
- Rainbow Lake
- Rycroft
- Saddle Lake
- Slave Lake
- Smith
- Spirit River
- St. Paul
- Swan Hills
- Valleyview
- Vegreville
- Wabasca – Desmarasis
- Wainwright
- Westlock
- Whitecourt

Each site is equipped with a variety of technologies to provide courses and programs to learners. CAP Coordinators located at each site provide assistance with technology and support. For more information about services for learners in the north, please contact the eCampusAlberta office:

Tricia Donovan
Executive Director
Tel: (403) 210-5638
e-mail: tricia.donovan@ecampusalberta.ca or info@ecampusalberta.ca
Website: ecampusalberta.ca
The Academic Foundations program offers adults the opportunity to upgrade to the Grade Nine equivalency. There are three levels to choose from: Entry (Adult Literacy), Intermediate and Advanced. Placement is based on the individual applicant’s skills and knowledge. All three levels are available on a full or part-time basis. Upon completion, students may continue in the College Preparation program, or qualify for admission into Career or Trades programs or enter the workplace.

ENTRY LEVEL
The Entry level of Academic Foundations builds students’ functional literacy skills in math, writing, reading, and computers to a grade 5.5 equivalency level. Each student has a personal education plan, which is tailored to address his or her unique needs. Small group, one-on-one instruction, and a wide variety of reading materials are used to accommodate the particular needs and interests of each student.

Students may join the Entry level in September or January. Students should have funding in place prior to coming to school. A student will reach a grade 5.5 equivalency in 10-20 months. Students beginning with long term literacy issues, such as those having learning disabilities or starting school with no literacy skills, may require additional time to complete this level upon recommendation of the instructor and chair.

Potential graduates of the Entry level will be individually assessed and placed into appropriate Intermediate levels of math and language arts. Progression may take place in December or April.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFM 006</td>
<td>Entry Level Math</td>
<td>6</td>
</tr>
<tr>
<td>AFL 006</td>
<td>Entry Level Language Arts</td>
<td>9</td>
</tr>
</tbody>
</table>

Graduation Requirements
Upon successful completion of the Entry level of Academic Foundations (attainment of a Pass (P) grade), students will receive an Academic Foundations Literacy Certificate.

INTERMEDIATE AND ADVANCED
The Intermediate and Advanced levels each operate on a typical 16-week semester with primary intakes in September or January. Courses at these levels offer adults language arts and math instruction between a grade 5.5 and 9 equivalency.

Graduates of the Advanced level may progress to College Preparation.

Admission Requirements
Students wishing to enter the program should contact the Office of the Registrar or the Program Chair to decide on an appropriate entry level.

English Language Proficiency
English Language Proficiency is not applicable, however all students applying to this program will be required to write the Keyano College Placement Assessment.

Admission Process
See Application Procedures on page 10.

Graduation Requirements
Prospective graduates of the Advanced level of Academic Foundations must have:

- A minimum grade of 60% in both Advanced Language Arts 009 and Advanced Math 009.
- A passing grade (P) in Communications 005 and any two other 005 level Student Success Seminars

Graduates of the Advanced level of Academic Foundations will receive an Academic Foundations Grade IX Equivalency Certificate.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFM 007</td>
<td>Intermediate Math</td>
<td>6</td>
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<tr>
<td>AFL 007</td>
<td>Intermediate Language Arts</td>
<td>9</td>
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<tr>
<td>AFM 009</td>
<td>Advanced Math</td>
<td>6</td>
</tr>
<tr>
<td>AFL 009</td>
<td>Advanced Language Arts</td>
<td>9</td>
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</tbody>
</table>
STUDENT SUCCESS SEMINARS
All Academic Foundations students are required to take at least three 005 courses in order to graduate from the program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADD 005</td>
<td>Addictions: Chemical Dependency and the Adult Learner</td>
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</tr>
<tr>
<td>COM 005</td>
<td>Communications Skills</td>
<td>2</td>
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<tr>
<td>COMP 005</td>
<td>Computers</td>
<td>2</td>
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<td>JOB 005</td>
<td>Job Skills</td>
<td>2</td>
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<tr>
<td>LIF 005</td>
<td>Healthy Lifestyles</td>
<td>2</td>
</tr>
<tr>
<td>PAR 005</td>
<td>Parenting Skills</td>
<td>2</td>
</tr>
<tr>
<td>PRO 005</td>
<td>Problem Solving: Critical Thinking Skills</td>
<td>2</td>
</tr>
<tr>
<td>STR 005</td>
<td>Stress and Time Management</td>
<td>2</td>
</tr>
<tr>
<td>SUR 005</td>
<td>Academic Survival Skills</td>
<td>2</td>
</tr>
</tbody>
</table>

Course Descriptions
See page 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Clearwater Campus
Janet Lowndes
Chair
Tel: (780) 791-8967
E-mail: janet.lowndes@keyano.ca

Fort Chipewyan
Marion Gariepy
Acting Chair
Tel: (780) 697-3767

Regional Learning Centres
Janet Lowndes
Chair
Tel: (780) 791-8967
E-mail: janet.lowndes@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
COLLEGE PREPARATION

• DIPLOMA
  Clearwater Campus
  Conklin Learning Centre
  Fort Chipewyan Campus
  Dorothy McDonald Learning Centre, Fort McKay
  Gregoire Lake Learning Centre
  Janvier Learning Centre

The College Preparation program is tailored to meet the needs of adults who wish to upgrade their academic education to a level that will allow them to enter apprenticeship, technical, career or university programs or to gain employment entry skills. The program consists of selected subjects and skill development at the Grade 10, 11, and 12 equivalency levels. The length of time required to complete the program will depend on a student’s background, motivation and goals.

Admission Requirements
Students wishing to enter the program should meet with a Student Advisor, Counsellor, or the Program Chair in order to clarify their career goals. Students can be admitted and placed within the program based on:

1. Successful completion of the Academic Foundations Certificate (minimum grade of C- in both AFM 009 and AFL 009), or

2. Transcript marks indicating successful completion of a program equivalent to an Alberta Education Grade 9 or higher, or

3. Completion of an Academic placement assessment demonstrating skill levels at or above the Grade 10 level.

All applicants may be required to write placement assessments to determine their entry level, in the subject(s) of study selected.

English Language Proficiency
English Language Proficiency is not applicable, however students applying to this program may be required to write the Keyano College Placement Assessment.

Admission Process
See Application Procedures on page 10.

KEYANO COLLEGE HIGH SCHOOL EQUIVALENCE DIPLOMAS
The College Preparation program at Keyano College offers those who complete the program two High School Equivalency Diplomas that are universally accepted by universities, colleges, trade schools and employers. Courses taken by College Preparation students are accepted in lieu of Alberta Learning courses. To ensure this acceptance, all courses must be reviewed and approved by the Alberta Council on Admissions and Transfers (ACAT). A listing of all acceptable “in lieu” courses is published annually: acat.gov.ab.ca.

Keyano College High School Equivalency Diploma
Students must successfully complete the following requirements with a grade point average of 1.7.

1. English 030/033
2. A minimum of one science course *
3. A minimum of one mathematics course *
4. A minimum of one social studies course *
   * Two subjects at the 030/033 level

Keyano College Advanced High School Equivalency Diploma
Students must successfully complete the following requirements with a grade point average of 1.7.

ENGL030 English 30
MATH30-1 Mathematics 30-1
SOST030 Social Studies 30

and either Option 1 or 2:

Option 1
Two of the following courses:
BIOL 030 Biology 30
CHEM 030 Chemistry 30
MATH 031 Mathematics 31
PHYS 030 Physics 30

Option 2
One of the following courses:
BIOL 030 Biology 30
CHEM 030 Chemistry 30
PHYS 030 Physics 30

and

One of the following courses:
CREE 100 Introductory Cree
FREN 111/112 Beginners’ French
MATH 031 Mathematics 31
**Diploma Requirements**

For either diploma, credit may be granted for high school level courses completed in Canadian English-language schools or accredited Canadian post-secondary institutions.

A minimum of four College Preparation courses, two at the 030/033 level, must be completed at Keyano College.

Keyano offers three streams of Math, each of which is designed to prepare learners for distinct academic and career fields. Learners are advised to choose the stream of Math which best prepares them for their career choice. Student Advisors, counsellors and program Chairs can assist a learner to identify the best stream and level in which to enrol.

**Keyano College Custom Preparation Packages**

Keyano College has a variety of Custom Preparation Packages (Prep-Packs) to help adults prepare for career programs. Prep Packs are available for:

- Business Programs
- Education Programs
- Social Work Programs
- Engineering Programs
- Environmental Technology Programs
- Health Sciences Programs
- Power Engineering & Process Operations Programs
- Trades Programs

Applicants may receive recognition for educational work previously completed if it is equivalent to the Keyano course. Advisors or chairs will tailor each applicant’s program to ensure you take only those subjects needed for entry into a targeted career program. All Keyano College prerequisites apply.

Please note: Successful completion of a custom Prep Pack does not guarantee admission into destination career programs. Some programs have limited seats available. Applicants are responsible for ensuring they meet application deadline dates and all prerequisites of the destination career program of their choice.

**Business Programs Prep-Pack**

This package provides opportunities for adult students to develop skills for admission to Business programs in post-secondary institutions.

**Program of Study**

Students can choose between two customized Prep Packs:

**Prep Pack A** - Office Administration Program

Students must have, or complete a minimum of:

- ENGL 020 or ENGL 023
- MATH 10C

**Prep Pack B** - Business Administration Program

Students must have, or complete a minimum of:

- ENGL 030 or ENGL 033
- MATH 30-1 or MATH 30-2

*Students should refer to the corresponding pages within this credit calendar for information regarding further program requirement. Successful completion of this program does not guarantee admission into subsequent programs.

**Education Programs Prep-Pack**

This package prepares students for programs in the field of education. We can prepare you for a certificate, diploma, or degree in your career path of choice.

**Program of Study**

Students can choose between two customized Prep Packs:

**Prep Pack A** - Early Learning and Child Care or Educational Assistant

Students must have, or complete a minimum of:

- ENGL 030 or ENGL 033

**Prep Pack B** - Bachelor of Education

Students must have, or complete a minimum of:

- ENGL 030
- MATH 30-1 or MATH 30-2
- Three additional 30 level courses

**Social Work Prep-Pack**

This package prepares students for programs in the social work field. We can prepare you for a diploma or degree in your career path of choice.

**Program of Study**

Students must have, or complete, a minimum of:

- ENGL 030

*Students should refer to the corresponding pages within this credit calendar for information regarding further program requirement. Successful completion of this program does not guarantee admission into subsequent programs.
**Engineering Prep-Pack**
This package prepares adult students to apply for entry into Engineering programs.

**Program of Study**
Students must have, or complete a minimum of:
- ENGL 030
- MATH 30-1
- PHYS 030
- CHEM 030

**Environmental Technology Prep-Pack**
This package prepares adult students to apply for entry into Environmental Technology programs.

**Program of Study**
Students must have, or complete a minimum of:
- ENGL 030
- MATH 30-1
- BIOL 030
- CHEM 030

*Students should refer to the corresponding pages within this credit calendar for information regarding further program requirements. Successful completion of this program does not guarantee admission into subsequent programs.*

**Health Science Prep-Pack**
This package prepares adult students to apply for entry into Health Science programs at post-secondary institutions.

**Program of Study**
Students can choose between two customized Prep Packs:

**PREP-PACK A - Practical Nursing and Pre-Hospital Care Programs**
- ENGL 030 or ENGL 033
- BIOL 030
- MATH 20-2

**PREP-PACK B - Bachelor of Science in Nursing**
- ENGL 030
- BIOL 030
- CHEM 030 or SCIE 030
- MATH 30-1 or MATH 30-2
- SOST 030

**Power Engineering And Process Operations Prep-Pack**
This package prepares adult students to apply for entry into Power Engineering and Process Operations programs.

**Program of study**
- ENGL 020 or ENGL 023
- PHYS 025
- MATH 20-1 or MATH 20-2

*Students should refer to the corresponding pages within this credit calendar for information regarding further program requirements. Successful completion of this program does not guarantee admission into subsequent programs.*

**Trades Prep-Pack**
This package prepares adult students to apply for entry into the competitive world of trades. Should you decide to pursue an apprenticeship, you will have all the prerequisite courses recommended by Alberta Apprenticeship and Industry Training (AAIT). If immediate employment is your goal, this package will provide you the opportunity to obtain a Grade 12 diploma and the skills you need to enter the job market.

**Program of Study**
Students must have, or complete a minimum of:
- ENGL 033
- MATH 30-3
- SCIE 030
# College Preparation

**Program of Study**  
*Not all courses are offered every term.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
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<td>ABST 020</td>
<td>Aboriginal Studies 20</td>
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<td>ABST 030</td>
<td>Aboriginal Studies 30</td>
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<tr>
<td>BIOL 025</td>
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<tr>
<td>BIOL 030</td>
<td>Biology 30</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 025</td>
<td>Chemistry 25</td>
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<td>Chemistry 30</td>
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<td>COMP 010</td>
<td>Computer Literacy 010</td>
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<tr>
<td>CREE 100</td>
<td>Introductory Cree</td>
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<td>ENGL 010</td>
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<td>FREN 111</td>
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<td>FREN 112</td>
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<tr>
<td>SOST 030</td>
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<td>5</td>
</tr>
</tbody>
</table>

**Course Descriptions**  
Please see pages 134 to 211 for an alphabetical list of all course descriptions.

**For Further Information**  
Clearwater Campus  
Janet Lowndes  
Chair  
Tel: (780) 791-8967  
E-mail: janet.lowndes@keyano.ca

Fort Chipewyan  
Marion Gariepy  
Acting Chair  
Tel: (780) 697-3767

*Academic Upgrading & College Preparation Programs in Fort Chipewyan are supported by Imperial Oil Foundation.*

Regional Campuses  
Janet Lowndes  
Chair  
Tel: (780) 791-8967  
E-mail: janet.lowndes@keyano.ca

**To Apply**  
Office of the Registrar  
Keyano College  
8115 Franklin Avenue  
Fort McMurray, AB T9H 2H7  
(780) 791-4801  
1-800-251-1408  
keyano.ca
CONNECTING TO COLLEGES AND CAREERS (CCC)

Under review, not accepting applications for 2014-2015.

- CERTIFICATE

This is an eight month, full-time program designed to give students the necessary skills to either proceed to further formal education or to procure and maintain long-term, competitive employment. It teaches core academic and employment skills identified by the Conference Board of Canada.

Prospective students have experienced difficulty in one or more of the following areas: succeeding in a formal education setting, maintaining permanent employment, dealing with day to day living skills, learning on and off the job, overcoming addictions.

Admission Requirements
- Prospective students must be 18 years of age or over.
- Students can apply themselves or be referred by employers, government agencies, bands, or educational organizations.
- Students must have a minimum grade 6 reading level.
- Students must meet with program staff or counselling.

Admission Process
Students interested in this program should provide contact information with the School of Career and Education Access at (780) 791-8967.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Term I</td>
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<tr>
<td>CCC 001</td>
<td>Interpersonal Skills For Education and Employment</td>
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<tr>
<td>CCC 002</td>
<td>Goal Setting</td>
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<tr>
<td>CCC 003</td>
<td>Academic Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>CCC 004</td>
<td>Problem Solving and Critical Thinking</td>
<td>2</td>
</tr>
<tr>
<td>Term II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCC 005</td>
<td>Interpersonal Skills for Education and Employment II</td>
<td>5</td>
</tr>
<tr>
<td>CCC 006</td>
<td>Employment Safety, Rights and Responsibilities</td>
<td>5</td>
</tr>
<tr>
<td>CCC 007</td>
<td>Supported Work Placement</td>
<td>5</td>
</tr>
</tbody>
</table>

Course Descriptions
Please see pages 134 to 211 for an alphabetical listing of all course descriptions.

For Further Information
Clearwater Campus
Janet Lowndes
Chair
Tel: (780) 791-8967
E-mail: janet.lowndes@keyano.ca

Fort Chipewyan
Marion Gariepy
Acting Chair
Tel: (780) 697-3767

Regional Campuses
Janet Lowndes
Chair
Tel: (780) 791-8967
E-mail: janet.lowndes@keyano.ca
PREPARATION FOR ACADEMIC & CAREER EDUCATION (PACE)

• CERTIFICATE

Conklin Learning Centre
Fort Chipewyan Campus
Dorothy McDonald Learning Centre, Fort McKay
Gregoire Lake Learning Centre
Janvier Learning Centre

This single semester (16-week) program is designed to prepare students to enter upgrading, vocational training and certain career programs at Keyano College. PACÉ refreshes math, writing and reading skills. It provides communication, problem solving, assertiveness, planning and study skills needed to be a successful student. PACÉ helps the student build a career and educational plan that is realistic and attainable.

Admission Requirements
• Prospective students must be 18 years of age or over, have an interest in pursuing further upgrading, academic or skills training. Students under 18 years of age may be considered following a special case hearing.

• Students are interviewed by program staff and are required to participate in an assessment process.

• Students can apply themselves, or employers, schools, education consultants, social workers, community workers, band personnel, etc. can refer them.

• Early application is advised so that students can be assisted with funding applications, interviews, etc. prior to May for Fall term or November for January Winter term.

• Applicants must read above a grade 4 level.

Admission Process
See Application Procedures on page 10.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
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<tr>
<td>PACE 001</td>
<td>Communication &amp; Conflict Management Skills</td>
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<tr>
<td>PACE 002</td>
<td>Academic Survival Skills</td>
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</tr>
<tr>
<td>PACE 003</td>
<td>Critical Thinking and Problem Solving</td>
<td>7</td>
</tr>
<tr>
<td>PACE 004</td>
<td>Academic and Career Planning</td>
<td>7</td>
</tr>
</tbody>
</table>

Course Descriptions
Please see pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Fort Chipewyan
Marion Gariepy
Acting Chair
Tel: (780) 697-3767

Regional Campuses
Janet Lowndes
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E-mail: janet.lowndes@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
TRANSITIONAL

Under review, not accepting applications for 2014-2015.

• CERTIFICATE

Clearwater Campus

Keyano College offers a 10-month pre-employment program that prepares students for post-secondary opportunities or employment. It is designed for people who have experienced barriers to learning such as developmental delays and learning problems. The program's goal is to develop students’ organizational, educational, and career goals so they move closer to securing employment or consider further education.

The program is divided into four parts:
1. Life Management Skills
2. Employability Skills
3. Individual Academic Programming
4. Work Experience

The program will run from September to the end of June. Students graduate with a Transitional Certificate if they have completed all four parts and have completed a portfolio.

Admission Requirements
• Must be 18 years of age
• Referral from an appropriate source
• Attend information sessions
• Consultation with Program Chair Instructor

Course Descriptions
Please see pages 134 to 211 for an alphabetical listing of all course descriptions.

For Further Information
Janet Lowndes
Chair
Tel: (780) 791-8967
E-mail: janet.lowndes@keyano.ca
The Aboriginal Entrepreneurship Program is designed to allow individuals working in Aboriginal business settings to acquire business skills and knowledge without having to leave their jobs or relocate their families. The main goals of the Program are:

- To foster success in individuals through education and training focused on entrepreneurial knowledge and skills in an Aboriginal context.
- To support the development of successful businesses with an Aboriginal context.
- To contribute to the success of existing Aboriginal and non-Aboriginal businesses with the skills obtained in this program.
- To meet the needs of current entrepreneurs, individuals who wish to become entrepreneurs, and those currently employed.
- To deliver meaningful, practical learning in an Aboriginal context.

Current employees of Aboriginal companies will benefit from this program and enhance their opportunities to advance within their current firms or prepare them to start new businesses. The program will improve their business knowledge and skills in an environment that is supportive and sensitive to the needs of Aboriginals in a business environment.

This online program is designed to meet the learning needs of individuals who are:

- currently employed or have experience in the workplace
- working in Aboriginal businesses that would benefit from additional skills in business and entrepreneurship in support of their organization
- experienced in both business and knowledge of their communities
- require a non-traditional delivery format due to work and family commitments.

**Admission Requirements**

a. Applicants must possess an Alberta High School Diploma or equivalent or mature student status.

b. Mature students (students who are 21 years or older) are encouraged to apply. They may be admitted as special students with a recommendation from a current employer, oil sands industry, or other workplace experience, or based on current entrepreneurial ventures.

All applicants must meet with a Program Coordinator to be accepted into the program and must have Internet access.

**English Language Proficiency**

- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

**Admission Process**

See Application Procedures on page 10.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABEN 100</td>
<td>Starting Your Own Business</td>
<td>3</td>
</tr>
<tr>
<td>ABEN 103</td>
<td>Communications</td>
<td>4</td>
</tr>
<tr>
<td>ABEN 106</td>
<td>Marketing for New Business Ventures</td>
<td>3</td>
</tr>
<tr>
<td>ABEN 109</td>
<td>Personal/Management Skills</td>
<td>3</td>
</tr>
<tr>
<td>ABEN 112</td>
<td>Finance for Aboriginal Business</td>
<td>3</td>
</tr>
<tr>
<td>ABEN 115</td>
<td>Small Business Accounting and Bookkeeping</td>
<td>5</td>
</tr>
<tr>
<td>ABEN 118</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>ABEN 121</td>
<td>Human Resource Issues</td>
<td>3</td>
</tr>
<tr>
<td>ABEN 124</td>
<td>E-Commerce for Small Business</td>
<td>2</td>
</tr>
<tr>
<td>ABEN 127</td>
<td>The Business Plan</td>
<td>1</td>
</tr>
</tbody>
</table>

**Course Descriptions**

Please see pages 134 to 211 for an alphabetical list of all course descriptions.

**For Further Information**

Aboriginal Entrepreneurship Coordinator
Tel: (780) 791-8967
E-mail: aben@keyano.ca

**To Apply**

Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801 • 1-800-251-1408
keyano.ca
ACCOUNTING AND MANAGEMENT

• CERTIFICATE
• DIPLOMA
• CO-OP DIPLOMA

Clearwater Campus

The Business programs provide many employment and entrepreneurial opportunities.

Admission Requirements
a. High School Diploma, or equivalent, with:
   • A minimum of 60% (C-) in Math 30-1 or 65% (C-) in Math 30-2 and
   • A minimum of 60% (C-) in English 30/30-1 or 65% (C-) in English 33/30-2
b. Mature students (students who are 21 years or older) may be admitted by:
   1. the completion of the above Math and English courses only (with the grades specified) or
   2. a pass mark on the College Entrance Test (Contact the Office of the Registrar at (780) 791-4801 to arrange to write this exam) or
   3. apply as a “Special” student. Special students may take up to four courses (one per term) without meeting the Admission Requirements.

English Language Proficiency
• TOEFL: iBT – minimum score of 79 with no score below 19
• IELTS – minimum score of 6.0
• CAEL – minimum score of 60
• MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process
See Application Procedures on page 10.

Admission to a Business Administration program does not guarantee course registration in limited enrollment courses.

Transferability
For information on transfer to various post-secondary institutions, please refer to the Alberta Transfer Guide at transferalberta.ca.

Students who intend to seek a degree should contact the Chair of Business Administration for information on how to transfer to the following institutions. Other transfer options beyond what is mentioned in this calendar are likely available. Please contact the Program Chair for more information.

1. Athabasca University, Athabasca, AB
   Bachelor of Commerce
   Bachelor of Management

2. Concordia University, Edmonton, AB
   Bachelor of Commerce
   Bachelor of Management

3. Grant MacEwan University, Edmonton, AB
   Bachelor of Commerce
   Bachelor of Management

4. University of Lethbridge, Lethbridge, AB
   Bachelor of Management

5. Okanagan College, Kelowna, BC
   Bachelor of Business Administration

6. Royal Roads University, Victoria, BC
   Bachelor of Commerce
   (Entrepreneurial Management)

Articulation Agreements
Office Administration Program
Specific courses in the Office Administration Certificate and Diploma programs are treated as equivalents to some first year Business courses. Please contact the Program Chair for details.
ACCOUNTING
This program is designed specifically for students who intend to pursue a career in accounting. Students may study part-time or full-time with day or evening courses.

Students in the Accounting program have two alternative streams of study. They may:

1. Study for the Bachelor of Administration, Bachelor of Management or Bachelor of Commerce degree (while also earning their Certificate and Diploma). These students would then (normally, but not necessarily) seek a professional accounting designation. The designations available are:
   - Chartered Accountant (CA)
   - Certified General Accountant (CGA)
   - Certified Management Accountant (CMA)

2. Study for the Certificate and Diploma in Accounting without intending to seek a university degree or an accounting designation. (Graduates of this stream would normally work in Accounts Payable, Accounts Receivable, Treasury, or as bookkeepers in a small or medium sized business.) Professional accounting societies now require a university degree in order to attain a professional accounting designation.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1: Certificate</strong></td>
<td><strong>Term I (September - December)</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>BUS 100</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Introductory Business Computing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 130</td>
<td>Introductory Accounting</td>
<td>3</td>
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<tr>
<td>BUS 239</td>
<td>Marketing</td>
<td>3</td>
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<tr>
<td><strong>Year 1: Certificate</strong></td>
<td><strong>Term II (January – April)</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>BUS 101</td>
<td>Report Writing and Presentations</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102</td>
<td>Interpersonal Skills for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111</td>
<td>Statistics I</td>
<td>3</td>
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<tr>
<td>BUS 131</td>
<td>Introductory Accounting II</td>
<td>3</td>
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<tr>
<td>BUS 191</td>
<td>Management</td>
<td>3</td>
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<tr>
<td><strong>Year 2: Diploma</strong></td>
<td><strong>Term I (September - December)</strong></td>
<td><strong>16.5</strong></td>
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<tr>
<td>BUS 230</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
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<tr>
<td>BUS 232</td>
<td>Introduction to Corporate Finance</td>
<td>3</td>
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<tr>
<td>BUS 233</td>
<td>Management Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 263</td>
<td>Business Simulation</td>
<td>1.5</td>
</tr>
<tr>
<td>BUS 270</td>
<td>Organizational Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Micro-Economics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2: Diploma</strong></td>
<td><strong>Term II (January – April)</strong></td>
<td><strong>16.5</strong></td>
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<tr>
<td>BUS 204</td>
<td>Accounting Software Applications</td>
<td>3</td>
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<tr>
<td>BUS 231</td>
<td>Intermediate Financial Accounting II</td>
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<td>BUS 234</td>
<td>Management Accounting II</td>
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<td>BUS 260</td>
<td>Business Law</td>
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</tr>
<tr>
<td>BUS 264</td>
<td>Integrated Case</td>
<td>1.5</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Macro-Economics</td>
<td>3</td>
</tr>
</tbody>
</table>
BUSINESS ADMINISTRATION

MANAGEMENT

This program provides a comprehensive introduction to, and study of, the concepts, principles and practices of business, marketing and management. The program is intended for students who seek a career in business without the specialization of the Accounting program. Students may study part-time or full-time with day or evening courses.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1: Certificate</strong></td>
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<td>15</td>
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<tr>
<td>Term I (September - December)</td>
<td>BUS 100 Business Communications</td>
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<td></td>
<td>BUS 103 Introductory Business Computing</td>
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<tr>
<td></td>
<td>BUS 110 Business Mathematics</td>
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</tr>
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<td></td>
<td>BUS 130 Introductory Accounting</td>
<td>3</td>
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<tr>
<td></td>
<td>BUS 239 Marketing</td>
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<td><strong>Year 1: Certificate</strong></td>
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<td>15</td>
</tr>
<tr>
<td>Term II (January – April)</td>
<td>BUS 101 Report Writing and Presentations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 102 Interpersonal Skills for Business</td>
<td>3</td>
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<tr>
<td></td>
<td>BUS 131 Introductory Accounting II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 191 Management</td>
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<td>ELECTIVE</td>
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<tr>
<td>Term I (September - December)</td>
<td>BUS 236 Managerial Finance for Managers</td>
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<td></td>
<td>BUS 237 Managerial Accounting for Managers</td>
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<td></td>
<td>BUS 270 Organizational Behaviour</td>
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<tr>
<td></td>
<td>BUS 263 Business Simulation</td>
<td>1.5</td>
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<td></td>
<td>ECON 101 Micro-Economics</td>
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<td><strong>Year 2: Diploma</strong></td>
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<td>16.5</td>
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<tr>
<td>Term II (January – April)</td>
<td>BUS 260 Business Law</td>
<td>3</td>
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<tr>
<td></td>
<td>BUS 264 Integrated Case</td>
<td>1.5</td>
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<td></td>
<td>BUS 299 Strategic Management</td>
<td>3</td>
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<td></td>
<td>ECON 102 Macro-Economics</td>
<td>3</td>
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<tr>
<td></td>
<td>ELECTIVE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ELECTIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who intend to proceed to a university degree must take BUS 111, Statistics I. Approved electives may be taken by all other students. Please contact a Student Advisor for available approved electives.

Course Descriptions

Please see pages 134 to 211 for an alphabetical list of all course descriptions.

CO-OP DIPLOMA

- ACCOUNTING
- MANAGEMENT

Students interested in Co-op Education must first enter the Business Administration program of their choice as regular full-time students. Students will be eligible to enter Co-op Education in the year in which they will complete the Business Administration Certificate, provided that the student has maintained a sessional GPA of 2.0 or higher. See page 46 for more information.

Completion of the entire Co-op Education program of academic and work semesters requires one additional year relative to the regular (non Co-op) program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS 121</td>
<td>Work Term I</td>
<td>9</td>
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<tr>
<td>BUS 221</td>
<td>Work Term II</td>
<td>9</td>
</tr>
<tr>
<td>BUS 222</td>
<td>Work Term III</td>
<td>9</td>
</tr>
<tr>
<td>BUS 223</td>
<td>Work Term IV (optional)</td>
<td>9</td>
</tr>
</tbody>
</table>

For Further Information

Office of the Registrar
Tel: (780) 791-4801
Gina Langager
Chair
Tel: (780) 791-8952
E-mail: gina.langager@keyano.ca

To Apply

Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
Clearwater Campus

Early Learning and Child Care courses are based on a philosophy that children thrive in developmentally appropriate, child-centred play programs that use a problem-solving approach to guidance. Practical experience with children is an integral part of the program.

The Early Learning and Child Care Diploma gives students knowledge and skills to achieve professional, supervisory positions in childcare. Study involves an ongoing forum of networking with other experienced early childhood professionals and projects tailored to students’ specific interests and requirements.

Part-time study is also available through evening classes and day classes when space allows. Graduates are employed primarily in daycare centres, preschools and family day homes.

To learn more about the program, applicants are strongly recommended to call or meet with the Program Chair.

Teachers and other professionals who work with young children may benefit from auditing individual courses for professional development.

Admission Requirements

a. Alberta High School Diploma, or equivalent, with a minimum of 50% in English 30-30-1 or 65% in English 33-30-2.

b. Mature students (students who are 21 years or older) with less than a high school diploma are encouraged to apply. Applicants will be considered after their overall strengths have been determined through a combination of an interview with ELCC staff and the College Entrance Test.

Mature students may be admitted as special students to individual ELCC courses (see Special Student Status on page 25).

RCMP security check with vulnerable sector and Child Care First Aid must be completed (often completed during the first week of class with department) before students begin their first practicum. Necessary forms for these requirements will be provided to full-time students on Orientation Day for the academic year.

TOEFL: iBT – minimum score of 79 with no score below 19

IELTS – minimum score of 6.0

CAEL – minimum score of 60

MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process

See Application Procedures on page 10.

Transferability

Graduates of the Early Learning and Child Care Diploma are eligible for transfer to the following institutions:

1. Mount Royal College, Calgary, AB
   Bachelor of Applied Child Studies

2. University of Alberta, Edmonton, AB
   2nd year Elementary Education
EARLY LEARNING AND CHILD CARE

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td><strong>Year 1: Certificate</strong></td>
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<tr>
<td>Term I (September - December)</td>
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<td></td>
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<tr>
<td>ELCC 101</td>
<td>Child Development I</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 104</td>
<td>Guiding Children’s Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 105</td>
<td>Personal Development &amp; Interaction</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 106</td>
<td>Learning Through Play</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 110</td>
<td>Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>ELCC 123</td>
<td>Creative Experiences for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 125</td>
<td>Practicum Seminar I</td>
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</tr>
<tr>
<td>ENGL 100</td>
<td>Written Composition</td>
<td>3</td>
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<tr>
<td><strong>Year 1: Certificate</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Term II (January – April)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELCC 102</td>
<td>Language and Literacy in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 116</td>
<td>Nutrition, Health &amp; Safety</td>
<td>2</td>
</tr>
<tr>
<td>ELCC 201</td>
<td>Child Development II</td>
<td>3</td>
</tr>
<tr>
<td>ELCC 206</td>
<td>Planning for Play</td>
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<td>ELCC 210</td>
<td>Practicum II</td>
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<td>ELCC 225</td>
<td>Practicum Seminar II</td>
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<td><strong>Year 2: Diploma</strong></td>
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<td>ELCC 300</td>
<td>Foundations: Issues and Ethics</td>
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<td>ELCC 301</td>
<td>Exceptional Child</td>
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<td>ELCC 302</td>
<td>Environments</td>
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<tr>
<td>ELCC 303</td>
<td>Child and Family</td>
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</tr>
<tr>
<td>ELCC 304</td>
<td>Ecology of the Family</td>
<td>2</td>
</tr>
<tr>
<td>ELCC 305</td>
<td>Interpersonal Relationships</td>
<td>2</td>
</tr>
<tr>
<td>ELCC 306</td>
<td>Group &amp; Team Dynamics</td>
<td>2</td>
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<tr>
<td>ELCC 307</td>
<td>Program Integration</td>
<td>2</td>
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<td>ELCC 308</td>
<td>Curriculum for Diversity</td>
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</tr>
<tr>
<td>ELCC 309</td>
<td>Understanding Children’s Behaviour</td>
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<td>ELCC 320</td>
<td>Practicum III – Part 1</td>
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<tr>
<td>ELCC 321</td>
<td>Practicum III – Part 2</td>
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<tr>
<td>ELCC 322</td>
<td>Practicum IV – Part 1</td>
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<td>ELCC 323</td>
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<tr>
<td>Two *Electives</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

*This includes any College credit course (excluding upgrading) which, when combined, have a total minimum of four credits. Courses must be approved by the Program Chair.

Course Descriptions
Please see pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Vincella Thompson
Chair
Tel: (780) 791-4833
E-mail: Vincella.Thompson@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
EDUCATIONAL ASSISTANT

• CERTIFICATE

Clearwater Campus
eCampusAlberta

The Childhood Studies department offers a full-time, ten-month Educational Assistant (EA) certificate program. Part-time study is also available through evening classes, online classes and day classes when space allows.

Graduates are employed primarily in schools or community programs working with children with special needs.

To learn more about the program applicants are strongly recommended to call or meet with the Program Chair.

Online Courses available through eCampusAlberta

Several of Keyano College’s Educational Assistant Certificate courses are now available online. Students may enroll in courses that are delivered through the Internet. Keyano College, Red Deer College, and Medicine Hat College have developed courses which transfer into Keyano College’s EA credential. For more information contact the Program Chair or visit ecampusalberta.ca.

As a Keyano student, taking courses from any one of the collaborative partners you will be granted credit for equivalent courses through Keyano College. Please contact the Program Chair for more information.

Admission Requirements

a. Alberta High School Diploma, or equivalent with a minimum of 50% in English 30/30-1 or 65% in English 33/30-2.

b. Mature students (students who are 21 years or older), with less than a high school diploma are encouraged to apply. Applicants will be considered after their overall strengths have been determined through the College Entrance Test. Mature students may be admitted as special students to individual EA courses (see Special Student Status on page 25).

RCMP security check with vulnerable sector must be submitted prior to the first day of classes and applied for no earlier than July 1st. Child Care First Aid must be completed (often completed during the first week of class with department) before students begin their first practicum. Necessary forms for these requirements will be provided to full-time students on Orientation Day for the academic year.

English Language Proficiency

• TOEFL: iBT – minimum score of 79 with no score below 19
• IELTS – minimum score of 6.0
• CAEL – minimum score of 60
• MELAB – minimum score of 80

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In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process

See Application Procedures on page 10.
# Program of Study

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<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EA 100</td>
<td>Role of the Educational Assistant</td>
<td>3</td>
</tr>
<tr>
<td>EA 101</td>
<td>Child Development I</td>
<td>3</td>
</tr>
<tr>
<td>EA 102</td>
<td>Language and Literacy</td>
<td>3</td>
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<tr>
<td>EA 104</td>
<td>Guiding Children’s Behaviour</td>
<td>3</td>
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<td>EA 105</td>
<td>Personal Development &amp; Interaction</td>
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<td>EA 125</td>
<td>Practicum Seminar I</td>
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<tr>
<td>ENGL 100</td>
<td>Written Composition</td>
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**Term II (January – April)** 17

<table>
<thead>
<tr>
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<th>Course Title</th>
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<td>EA 201</td>
<td>Child Development II</td>
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<td>EA 202</td>
<td>Working with Children with Special Needs</td>
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</tr>
<tr>
<td>EA 206</td>
<td>Developing Numeracy in the Elementary Classroom</td>
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</tr>
<tr>
<td>EA 210</td>
<td>Practicum II</td>
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<tr>
<td>EA 211</td>
<td>Reading Support for Emergent Readers</td>
<td>3</td>
</tr>
<tr>
<td>EA 225</td>
<td>Practicum Seminar II</td>
<td>1</td>
</tr>
</tbody>
</table>

### Exceptionality Options 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA 212</td>
<td>Exceptionality I Brain/Cognitive</td>
<td>1</td>
</tr>
<tr>
<td>EA 213</td>
<td>Exceptionality II Physical/Medical</td>
<td>1</td>
</tr>
<tr>
<td>EA 214</td>
<td>Introduction to Communication I Disorders</td>
<td>1</td>
</tr>
<tr>
<td>EA 216</td>
<td>Exceptionality V Behavioural Disorders</td>
<td>1</td>
</tr>
<tr>
<td>EA 217</td>
<td>Adolescents in the Classroom</td>
<td>1</td>
</tr>
<tr>
<td>EA 222</td>
<td>Specialized Training in Exceptionalities</td>
<td>1</td>
</tr>
<tr>
<td>EA 223</td>
<td>Working with EAL Children</td>
<td>1</td>
</tr>
<tr>
<td>EA 224</td>
<td>Working with Children with Autism Spectrum Disorders</td>
<td>1</td>
</tr>
<tr>
<td>EA 226</td>
<td>School Age Care</td>
<td>1</td>
</tr>
<tr>
<td>EA 227</td>
<td>Learning Through Play for School Aged Children</td>
<td>1</td>
</tr>
<tr>
<td>EA 314</td>
<td>Working with Communication Disorders</td>
<td>1</td>
</tr>
</tbody>
</table>

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**Course Descriptions**

Please see page 134 to 211 for an alphabetical list of all course descriptions.

**For Further Information**

Vincella Thompson  
Chair  
Tel: (780) 791-4833  
Vincella.Thompson@keyano.ca

**To Apply**

Office of the Registrar  
Keyano College  
8115 Franklin Avenue  
Fort McMurray, AB T9H 2H7  
(780) 791-4801  
1-800-251-1408  
keyano.ca
ENVIRONMENTAL MONITORING PROGRAM

• CERTIFICATE

The Environmental Monitoring Program provides qualifying First Nations, Métis or non-status Aboriginals with academic, employability and occupational skills (including work experience) to become environmental monitors with industry partners in Alberta.

The program consists of 29 weeks of instruction, which are designed to prepare trainees for the occupation of an Environmental Monitor through flexible and responsive instruction specific to individual and industry needs. Upon successful completion of the safety training, participants will receive Health & Safety Certificates.

Admission Requirements
• 18 years of age or older
• Math 10C or equivalent
• English and Science 10 with 50%
• GED Equivalency will be accepted
• Willing to undergo and able to pass an industry-mandated drug and alcohol test
• Two references
• Current resume and transcripts

Mature students (students who are 21 years or older), who do not have the required educational experience in environmental monitoring may enter the program on the approval of the Chair and Program Coordinator.

The mandatory preparatory sessions are:
• Environmental Monitoring Program Orientation
• Environmental Health and Safety Orientation
• Safety Training
• ERIC (Effective Reading in Context)
• WAM (Workplace Applied Math)
• Computer Skills

Each trainee must have these preparatory courses before being allowed to participate in the worksite training and placement. The participant will be tested and confirmed before certificates are issued. If a candidate already has a valid, current and acceptable certificate for any or all of the mandatory subjects, they may be exempt in repeating the above components.

English Language Proficiency
• TOEFL: iBT – minimum score of 71 with no score below 17
• IELTS – minimum score of 5.5
• CAEL – minimum score of 60
• MELAB – minimum score of 60

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet admission requirements for their chosen program.

Admission Process
Contact the Environmental Monitoring Program Coordinator in the Aboriginal Education Department.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVS 100</td>
<td>Traditional Land Use</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 110</td>
<td>Environmental Planning</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 120</td>
<td>Environmental Inspection, Monitoring And Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 180</td>
<td>Work Placement I</td>
<td>4</td>
</tr>
<tr>
<td>Term II</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>ENVS 130</td>
<td>Reclamation</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 140</td>
<td>Global Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>ENVS 150</td>
<td>Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 190</td>
<td>Waste Management &amp; Monitoring</td>
<td>4</td>
</tr>
</tbody>
</table>

Trainees who successfully complete all sessions of the program, may be interviewed by industry stakeholders and participating employers, within the last two weeks of the program to be selected for gainful employment.

Course Descriptions
Please see page 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Aboriginal Education Department
Tel: (780) 791-4912 or (780) 791-4856
ENVIRONMENTAL TECHNOLOGY

Sponsored by: 

- DIPLOMA
- CO-OP DIPLOMA

Clearwater Campus

The Environmental Technology program focuses on the environmental issues, problems and solutions that are associated with the natural resource industries of northern Alberta.

The program is a two-year diploma program which develops the skills required for environmental positions with industry and government. The curriculum includes the necessary chemistry, biology and mathematics as it relates to the environment as well as environmental technology courses.

ECO Canada Accreditation

The Environmental Technology diploma program is accredited with ECO Canada (Environmental Career Organization). Students graduating from our program can apply to receive ECO Canada’s Environmental Professional (EP) designation. This is an industry leading designation that helps students showcase their skills and demonstrate their commitment to continued professional growth. Because of this accreditation, our graduates are eligible to upgrade to the full EP designation after just four years, instead of the standard five.

Admission Requirements

a. Applicants must possess an Alberta High School Diploma or equivalent with:
   - English 30-1/30
   - Math 30-1
   - Chemistry 30
   - Biology 30

b. Mature students (students who are 21 years or older) require all courses listed above. Students missing English or Math may be eligible to write the College Entrance Test. Mature students are encouraged to speak with a Student Advisor for assistance.

English Language Proficiency

- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process

See Application Procedures on page 10.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1:</td>
<td>Term I (September - December)</td>
<td></td>
</tr>
<tr>
<td>BIOL 108</td>
<td>An Introduction to Biodiversity</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Introductory University Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>EAS 100</td>
<td>Planet Earth</td>
<td>3</td>
</tr>
<tr>
<td>ENV 164</td>
<td>Safety &amp; Environment</td>
<td>2</td>
</tr>
<tr>
<td>ENV 170</td>
<td>Animal Identification</td>
<td>3</td>
</tr>
<tr>
<td>WRITE 103</td>
<td>Scientific Writing</td>
<td>3</td>
</tr>
<tr>
<td>Year 1:</td>
<td>Term II (January – April)</td>
<td></td>
</tr>
<tr>
<td>ENV 163</td>
<td>Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>ENV 165</td>
<td>Geotechnical Sampling &amp; Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>ENV 167</td>
<td>Oil, Gas and Oil Sands</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>Intro to Mapping, GPS, Remote Sensing, and GIS</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1113</td>
<td>Elementary Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Year 2:</td>
<td>Term I (September - December)</td>
<td></td>
</tr>
<tr>
<td>BIOL 208</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 261</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ENV 252</td>
<td>Regional Plant Identification</td>
<td>3</td>
</tr>
<tr>
<td>ENV 262</td>
<td>Environmental Laws, Guidelines, Regulations &amp; Land Rights</td>
<td>3</td>
</tr>
<tr>
<td>SOILS 210</td>
<td>Introduction to Soil Science And Soil Resources</td>
<td>3</td>
</tr>
<tr>
<td>STATS 151</td>
<td>Introduction to Applied Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Year 2:</td>
<td>Term II (January – April)</td>
<td></td>
</tr>
<tr>
<td>ENV 265</td>
<td>Forest Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENV 266</td>
<td>Land Reclamation</td>
<td>3</td>
</tr>
<tr>
<td>ENV 267</td>
<td>Mining and Mineral Processing</td>
<td>3</td>
</tr>
<tr>
<td>ENV 270</td>
<td>Wildlife Management and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 207</td>
<td>Developing Professional Speaking Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

Course Descriptions

Please see pages 134 to 211 for an alphabetical list of all course descriptions.
Co-op Diploma
Students interested in Co-op Education must first enter the Environmental Technology program as regular full-time students. Students will be eligible to enter Co-op Education in the year in which they will complete all first-year courses in Environmental Technology, provided that the student has maintained a sessional GPA of 2.0 or higher. See page 46 for more information.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 220</td>
<td>Co-op Work Term</td>
<td>10</td>
</tr>
</tbody>
</table>

Field Trips/Outdoor Laboratories
The Environmental Technology courses involve local field trips and outdoor laboratory classes within the Fort McMurray area during class hours.

For Further Information
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Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
FITNESS LEADERSHIP AND MOVEMENT

• DIPLOMA

Clearwater Campus

The Fitness Leadership and Movement Diploma program is designed to acquire the necessary knowledge, skills and attitudes required to plan and instruct fitness classes, perform a variety of fitness testing protocols, counsel individuals and groups regarding fitness programs and establish and operate fitness programs in industry, clubs and communities.

The coursework within the diploma allows for students to take the Canadian Society of Exercise Physiology Certified Personal Trainer (CSEP - CPT) national certification course upon completion of their Fitness Leadership and Movement Diploma coursework.

The coursework is designed to give students the confidence to begin their careers as personal trainers with knowledge and experience, as well as, the opportunity to network with local fitness professionals and facilities.

Admission Requirements
a. Applicants must possess an Alberta High School Diploma or equivalent with:
   • English 30-1/30
   • Math 30-1 or Math 30-2
   • Group A or C (Biology 30 Recommended)
   • Group B or C or one of: Physical Education 30 (5 credits), Exercise Science 35, Sports Medicine 5, Sport Performance 35
   • Group A or C
   Students must have at least 60% in all classes.

b. Mature Students (students who are 21 years or older)
   • English Language Arts 30-1 (minimum grade of 60%)
   • Math 30-1 or Math 30-2 (minimum grade of 60%)
   • Subject from Group A or C (Biology 30 recommended)

English Language Proficiency
• TOEFL: iBT – minimum score of 79 with no score below 19
• IELTS – minimum score of 6.0
• CAEL – minimum score of 60
• MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process
See Application Procedures on page 10.

Progression Criteria
To be promoted into the second year of the program, you must have successfully completed all first year course requirements, have a valid certificate AFLCA Exercise Theory and at least one AFLCA specialty course, and valid certificate in CPR and First Aid.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Year 1: Term I (September - December)</td>
<td>15</td>
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<tr>
<td>BUS 100</td>
<td>Business Communications</td>
<td>3</td>
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<tr>
<td>PEDS 100</td>
<td>Structural Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 101</td>
<td>Essentials of Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PERLS 105</td>
<td>Introduction to Sport Administration</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 104</td>
<td>Basic Psychological Processes</td>
<td>3</td>
</tr>
<tr>
<td>Year 1: Term II (January – April)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>FLM 100</td>
<td>Practicum 1</td>
<td>3</td>
</tr>
<tr>
<td>PAC 144</td>
<td>Resistance Training</td>
<td>3</td>
</tr>
<tr>
<td>PAC 156</td>
<td>Yoga for Beginners</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 103</td>
<td>Integrative Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>STAT 151</td>
<td>Introduction to Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Year 2: Term I (September - December)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>BUS 239</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HE ED 220</td>
<td>Introduction to the Biological Aspects of Fitness and Health</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 100</td>
<td>Nutrition and Wellbeing</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 200</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 207</td>
<td>Physical Growth and Psychomotor</td>
<td>3</td>
</tr>
<tr>
<td>Year 2: Term II (January – April)</td>
<td>15</td>
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</tr>
<tr>
<td>FLM 200</td>
<td>Advanced Fitness Practicum</td>
<td>3</td>
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<tr>
<td>PEDS 206</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 240</td>
<td>Introduction to Sport Injury Management</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 303</td>
<td>Psychology of Sport &amp; Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 311</td>
<td>Assessment of Fitness and Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Course Descriptions
Please see pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Vincella Thompson, Chair
Tel: (780) 791-4833
E-mail: vincella.thompson@keyano.ca

To Apply
Office of the Registrar, Keyano College
8115 Franklin Avenue; Fort McMurray, AB T9H 2H7
(780) 791-4801 or 1-800-251-1408 | keyano.ca
HEALTH CARE AIDE

• CERTIFICATE

Clearwater Campus

The Health Care Aide is a 20 week full-time program that allows students to acquire the knowledge, skills and attitudes they need through the full time course work.

The Health Care Aide (HCA) program is designed for caring people who like to help others. As an HCA, students will help a health-care team provide care to clients who need assistance. This program meets the provincial curriculum standards.

Admission Requirements
• Minimum of 18 years of age
• English Language Arts 10-1 or English Language Arts 10-2 or equivalent. GED is accepted provided the student has successfully completed the Language Arts Reading and Writing Skills portion.
• Completion of the health status questionnaire (form provided by Health Services)
• Physical and mental abilities required for lab practicum courses
• Clear Police Information Check with Vulnerable Sector Check. The cost of a Police Information Check with Vulnerable Sector Check must be dated no earlier than July 1st
• Up-to-date immunization record including Hepatitis B
• Computer skills are an asset
• CPR Certification at the Healthcare Provider level

Clinical Practicum Requirements
• CPR Certification at the Healthcare Provider level
• Up-to-date immunization record

English Language Proficiency
• TOEFL: iBT – minimum score of 84 with no score below 21
• IELTS – minimum score of 6.0 with no score below 5.0
• CAEL – minimum score of 60 with no score below 60
• MELAB – minimum score of 80 with no score below 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet admission requirements for their chosen program.

Progression Policy
Students must receive a passing grade of C+ in each course to progress through the program. To qualify for graduation, students must pass all courses.

Admission Process
See Application Procedures on page 10.

Program Dates

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 110</td>
<td>Working as a Health Care Aide</td>
<td>3</td>
</tr>
<tr>
<td>HCA 111</td>
<td>Communication in the Health Care Environment</td>
<td>2</td>
</tr>
<tr>
<td>HCA 112</td>
<td>Structure and Function of the Human Body</td>
<td>3</td>
</tr>
<tr>
<td>HCA 113</td>
<td>Providing Client Care and Comfort</td>
<td>2</td>
</tr>
<tr>
<td>HCA 114</td>
<td>Meeting Complex Care Needs</td>
<td>1</td>
</tr>
<tr>
<td>HCA 115</td>
<td>Assisting with Medication Delivery</td>
<td>1</td>
</tr>
<tr>
<td>HCA 116</td>
<td>Special Activities for Diverse Clients</td>
<td>3</td>
</tr>
<tr>
<td>HCA 117</td>
<td>Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Course Descriptions
Please see page 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Bev Maron
Chair
Tel: (780) 791-4961
Email: beverly.maron@keyano.ca

Sharon Grantham
Coordinator Health Care Aide Program
Tel: (780)792-5741
Email: sharon.grantham@keyano.ca

To Apply
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Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
This is a career advancement program designed specifically for students who wish to gain knowledge and skills relating to a career in Human Resources Management (HRM). It is offered as a part-time program with all courses available in the evenings to accommodate working professionals. The Human Resource Certificate is ideal for two types of students:

1. Students who are currently employed in entry level positions within a human resource department (payroll clerk, human resource assistant, etc.) and who are interested in career advancement.

2. Students who have extensive administrative experience in several areas within an organization and are looking to move into a position within a human resource department.

The HRM Certificate program consists of eight courses. Four of these are required courses that develop basic knowledge and communication skills relevant to the practice of HRM. Students choose four other courses from a list of electives. The electives are specialized courses, providing in-depth knowledge and training in particular components of the HRM function.

**Admission Requirements**

a. High School Diploma, or equivalent, with:
   - A minimum of 60% (C-) in English 30/30-1 or 65% (C-) in English 33/30-2 or equivalent
   - Submission of current resume outlining relevant work experience

b. Mature students (students who are 21 years or older) may be admitted by:
   1. the completion of the above English course (with the grade specified)
   2. a pass mark on the College Entrance Test (Contact the Office of the Registrar at (780) 791-4801 to arrange to write this exam)
   3. apply as a “Special” student. Special students may take up to four courses (one per term) without meeting the Admission Requirements.

**English Language Proficiency**

- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.
CERTIFICATE AND DIPLOMA PROGRAMS

Clearwater Campus

The Office Administration program has been tailored to serve the needs of both small business and large industrial employers. In preparation for employment, students learn the skills necessary to manage an electronic office environment for small to medium sized businesses. A highly-trained Office Administration Certificate graduate can perform a range of duties including general administrative functions, public affairs support, bookkeeping, document processing and reception.

Due to ever-changing corporate structures, there is a greater need for higher level skills. The diploma program provides students with skills in advanced software applications, software support and training, effective workflow using communication technology, developing proposals and presentations, and providing team leaders with administrative support.

Admission Requirements

Certificate
a. High School Diploma or equivalent with a passing grade of 60% in Math 10C; or High School Diploma equivalent with a pass mark on the College Entrance Test.

b. Mature students (students who are 21 years or older):
   - C- or 60% in English 20/20-1 or English 23/20-2 and C- or 60% in Math 10C or
   - Pass mark on the College Entrance Test (Contact the Office of the Registrar at (780) 791-4801 to arrange to write this exam)

Diploma
Potential Diploma students should satisfy the following criteria:
- Successful completion of a one-year certificate in Office Administration or related program from a community college or a technical institute;
- or produce documentation outlining an equivalent combination of work experience and training and successful skills assessment in the areas of communication, organizational skills, keyboarding and computer applications.

These steps will ensure that students have a realistic opportunity for success in the diploma program.

English Language Proficiency
- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process
See Application Procedures on page 10.

Transferability
Graduates of the Office Administration Diploma Program are eligible for transfer to:

1. Athabasca University, Athabasca, AB
   Bachelor of Professional Arts – Communications

2. Concordia University, Edmonton, AB
   Bachelor of Commerce

3. University of British Columbia, Okanagan, BC
   Bachelor of Management

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA 108</td>
<td>Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>OA 110</td>
<td>Windows &amp; File Management</td>
<td>1</td>
</tr>
<tr>
<td>OA 118</td>
<td>Keyboarding I</td>
<td>2</td>
</tr>
<tr>
<td>OA 120</td>
<td>Business Communications I</td>
<td>3</td>
</tr>
<tr>
<td>OA 135</td>
<td>Human Relations in Business</td>
<td>2</td>
</tr>
<tr>
<td>OA 145</td>
<td>Microsoft Word &amp; Document Preparation I</td>
<td>3</td>
</tr>
<tr>
<td>OA 180</td>
<td>Microsoft Access</td>
<td>2</td>
</tr>
<tr>
<td>OA 107</td>
<td>Business Math &amp; Microsoft Excel – Specialist</td>
<td>2</td>
</tr>
<tr>
<td>OA 109</td>
<td>Computerized Accounting I</td>
<td>2</td>
</tr>
<tr>
<td>OA 119</td>
<td>Keyboarding II</td>
<td>2</td>
</tr>
<tr>
<td>OA 122</td>
<td>Business Communications II</td>
<td>3</td>
</tr>
<tr>
<td>OA 136</td>
<td>Office Procedures</td>
<td>2</td>
</tr>
<tr>
<td>OA 146</td>
<td>Microsoft Word Specialist &amp; Document Preparation I</td>
<td>3</td>
</tr>
<tr>
<td>OA 133</td>
<td>On the Job Training</td>
<td>2</td>
</tr>
</tbody>
</table>

See page 12 for other ways to meet the English Language Proficiency requirement.
CERTIFICATE AND DIPLOMA PROGRAMS

OFFICE ADMINISTRATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2: Diploma Term I (September - December)</td>
<td>12-15</td>
<td></td>
</tr>
<tr>
<td>OA 215</td>
<td>Microsoft Word – Expert</td>
<td>3</td>
</tr>
<tr>
<td>OA 216</td>
<td>Microsoft Excel – Expert</td>
<td>3</td>
</tr>
<tr>
<td>OA 220</td>
<td>Presentations &amp; Microsoft PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>OA 280</td>
<td>Microsoft Access – Expert</td>
<td>3</td>
</tr>
<tr>
<td>OPTION (Fall or Winter)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Year 2: Diploma Term II (January – May) | 12-15   |
| OA 221  | Reports and Proposals               | 3       |
| OA 231  | Office Automation                   | 3       |
| OA 233  | On the Job Training                 | 3       |
| OA 234  | Business Relations                  | 3       |
| OPTION (Fall or Winter) * For approved options see specialization courses. Only one option is necessary to graduate without specialization. | 3       |

Specialization Courses
Not all specialization courses are offered every year. Course offerings are based on sufficient enrollment.

Accounting Specialization (both courses required to gain specialization)

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA 208</td>
<td>Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>OA 209</td>
<td>Computerized Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 130 Introductory Accounting I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 131 Introductory Accounting II</td>
<td>3</td>
</tr>
</tbody>
</table>

Electronic Publishing Specialization (both courses required to gain specialization)

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA 218</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>OA 219</td>
<td>Web Page Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Legal and Medical courses may be taken through distance learning from other institutions. These courses may be offered by Keyano College if there is sufficient enrollment.

NOTE: A minimum pass for all Office Administration courses is a grade of C-.

Online Options through eCampusAlberta
Keyano College's complete second year Office Administration Diploma is now available online. Students may enroll in courses that are delivered through the Internet, Keyano College, Red Deer College, and the Southern Alberta Institute of Technology (SAIT) deliver courses that transfer into Keyano College's credential. For more information contact the Program Chair or view the web site: keyano.ca/continuing-ed/evening-courses/office-administration or ecampusalberta.ca.

Students who complete the Office Administration Certificate courses through eCampusAlberta will be granted advanced credit for equivalent courses through Keyano College with submissions of official transcripts. Please contact the Program Chair for more information.

Co-op Diploma
Students interested in Co-op Education must first enter the Office Administration Diploma program as regular full-time students. Students will be eligible to enter Co-op Education in the year in which they will complete all first year courses in Office Administration, provided that the student has maintained a sessional GPA of 2.0 or higher. This work term will be May to August. See page 49 for more information.

Course Descriptions
Please see pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Gina Langager
Chair
Tel: (780) 791-8952
E-mail: gina.langager@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
PRACTICAL NURSE

• DIPLOMA

Clearwater Campus

The two year Practical Nurse program will prepare students for a career in high quality nursing care in many different settings: hospitals, home care, and other health care agencies. The practical nurse works co-operatively with other health care personnel in the promotion, maintenance and restoration of wellness.

The program includes practical experience in job related settings and prepares graduates for employment in the current health care environment; it also prepares students to write the National Practical Nurse Examination.

Admission Requirements

a. Minimum 18 years of age
   • High School Diploma
   • Minimum of 60% in English 30/30-1 or 70% in English 33/30-2
   • Minimum of 60% Biology 30
   • Minimum of 50% in Math 20-1 or 60% in Math 20-2
   • Completion of health status questionnaire
   • Must have the physical and mental abilities required for nursing lab and practicum courses
   • The student is required by Alberta Health Services (AHS) to provide the educational institution with a Police Information Check and Vulnerable Sector Check one time, provided the student maintains enrolment in the program with no lapse of more than two (2) consecutive full terms.

   The student, during enrolment in the program, must self-report any change in criminal convictions or criminal charges to the Chairperson of the Nursing and Allied Health Studies Department.

   When a Police Information Check shows any one or more boxes checked off indicating that information “may or may not exist”, the student will be directed to consult with Chair of the Nursing and Allied Health Services Department for further information.

   The cost of a Police Information Check is the student’s responsibility. Police Information Check and Vulnerable Sector Check must be dated no earlier than July 1st.

   • Up-to-date immunization record; Hepatitis B immunization may be completed while in the program

b. Mature students (students who are 21 years of age or older):
   • A high school diploma is recommended
   • Must have the English, Math, and Biology entrance requirements
   • Must meet non-academic requirements

Clinical Requirements

• CPR certification at the Healthcare Provider Level; recertification in each subsequent year is required.
• Up to date immunization record; Hepatitis B immunization may be completed while in the program

English Language Proficiency

• TOEFL: iBT – minimum score of 84 with no score below 21
• IELTS – minimum score of 6.0 with no score below 6.0
• CAEL – minimum score of 60 with no score below 60
• MELAB – minimum score of 80 with no score below 80
• CLBA – no score below 8

See page 12 for other ways to meet the English Language Proficiency requirement.

Spoken Language Requirement

In addition to demonstrating English Language Proficiency, applicants whose first language is not English, regardless of country of origin or citizenship must also present Spoken Language Proficiency. Applicants who have six or more years of full-time education in English, normally including the grade 12 year or higher, in a Canadian school (or an approved school outside of Canada with accepted English proficiency) meet this requirement. If applicants do not present these years of English education, they may be able to meet this requirement by presenting:

• A minimum of 26 on the speaking band of the TOEFL: iBT or a minimum of 7.5 on the IELTS speaking band.

In addition to meeting English Language and Spoken English requirements (where required), students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process

See Application Procedures on page 10.
## PRACTICAL NURSE

### Program of Study

<table>
<thead>
<tr>
<th>Year 1: Term I (September - December)</th>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>PN 100</td>
<td>Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>PN 101</td>
<td>Anatomy &amp; Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>PN 103</td>
<td>Communications for Nursing</td>
<td></td>
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<tr>
<td>4</td>
<td>PN 155</td>
<td>Nursing Foundations I: Introduction to Nursing</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PSYCH 106</td>
<td>Psychological Principles for Nursing</td>
<td></td>
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<tr>
<td>3</td>
<td>ENGL</td>
<td>1st Year University English</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>PN 102</td>
<td>Health Education: Individual Health &amp; Wellness</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 105</td>
<td>Pathophysiology for Health-Care Professions</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 130</td>
<td>Basic Pharmacotherapeutics</td>
<td></td>
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<tr>
<td>7</td>
<td>PN 156</td>
<td>Nursing Foundations II: Basic Nursing</td>
<td></td>
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<tr>
<td>5</td>
<td>PN 160</td>
<td>Nursing Practice I: Continuing Care Practice</td>
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<tr>
<td>3</td>
<td>SOCY 100</td>
<td>Introductory Sociology</td>
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<td>20</td>
<td>PN 200</td>
<td>Nursing Foundations III: Medical-Surgical Nursing</td>
<td></td>
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<tr>
<td>4</td>
<td>PN 201A</td>
<td>Nursing Practice II: Acute Care Practice – Medicine</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PN 201B</td>
<td>Nursing Practice II: Acute Care Practice – Surgery</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 202</td>
<td>Nursing Foundations IV: Maternity Nursing</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2: Term I (September - December)</th>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>9</td>
<td>PN 200</td>
<td>Nursing Foundations III: Medical-Surgical Nursing</td>
<td></td>
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<tr>
<td>4</td>
<td>PN 201A</td>
<td>Nursing Practice II: Acute Care Practice – Medicine</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PN 201B</td>
<td>Nursing Practice II: Acute Care Practice – Surgery</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 202</td>
<td>Nursing Foundations IV: Maternity Nursing</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 203</td>
<td>Nursing Foundations V: Pediatric Nursing</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 204</td>
<td>Nursing Foundations VI: Community Nursing</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PN 205</td>
<td>Nursing Foundations VII: Mental Health Nursing</td>
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<td>3</td>
<td>PN 206</td>
<td>Nursing Foundations VIII: Transition to Graduate Nursing</td>
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<tr>
<td>3</td>
<td>PN 207</td>
<td>Nursing Practice III: Focused Practice</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PN 208</td>
<td>Nursing Practice IV: Comprehensive Practice</td>
<td></td>
</tr>
</tbody>
</table>

### Course Descriptions

Please see page 134 to 211 for an alphabetical list of all course descriptions.

### For Further Information

Catharine Simpson Szpak  
Coordinator Practical Nurse Program  
Tel: (780) 791-8908  
Email: catharine.szpak@keyano.ca

### To Apply

Office of the Registrar  
Keyano College  
8115 Franklin Avenue  
Fort McMurray, AB T9H 2H7  
(780) 791-4801  
1-800-251-1408  
keyano.ca
PRE HOSPITAL PROGRAMS

- CERTIFICATE (TECHNICIAN)
- DIPLOMA (PARAMEDIC)

Clearwater Campus

EMT: TECHNICIAN CERTIFICATE
Graduates of this 20-week program will provide basic pre-hospital emergency care in urban or rural locations, where definitive care may be minutes or hours away. Graduates will use their anatomy, physiology and pathophysiology knowledge to make a field diagnosis and treat traumatic, environmental, or medical emergencies. Graduates will be competent in emergency care skills such as patient assessment, wound care, splinting, CPR, managing medical emergencies, IV therapy, and cardiac monitoring.

Admission Requirements
- High School Diploma or grade 12 equivalent or G.E.D.
- EMR certification from the Alberta College of Paramedics
- Valid Class 1, 2 or 4 driver’s license
- Resume highlighting field experience
- Alberta College of Paramedics (ACP) registration

Prior to beginning practicums, students must complete medical forms, show proof of up-to-date immunizations, and obtain a clear criminal record check with vulnerable sector check.

English Language Proficiency
- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Admission Process
See Application Procedures on page 10.

Graduation Requirements
Minimum grade of B+ in EMTA 400 and 407, and a pass in remaining courses.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTA 400</td>
<td>Integrated Theory</td>
<td>6</td>
</tr>
<tr>
<td>EMTA 406</td>
<td>Recreation Program – Fitness</td>
<td>1</td>
</tr>
<tr>
<td>EMTA 407</td>
<td>Practical Course</td>
<td>3</td>
</tr>
<tr>
<td>EMTA 408</td>
<td>Ambulance Practicum</td>
<td>4</td>
</tr>
<tr>
<td>EMTA 409</td>
<td>Hospital Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

Program Dates
Fall 2014: September 8, 2014 - February 6, 2015
CERTIFICATE AND DIPLOMA PROGRAMS

PRE HOSPITAL PROGRAMS

EMT-P: PARAMEDIC TECHNOLOGY DIPLOMA
This program offers a unique way of obtaining Advanced Life Support pre-hospital care education. The program is two years in length and includes classroom and practical instruction.

Admission Requirements
- High School Diploma with at least 50% in the following: English 30/30-1 or 33/30-2, Biology 30 or another 30-level science, Math 20-1 or Math 20-2
- EMT certification from the Alberta College of Paramedics (ACP)
- CPR certification within the last year
- Current Basic Trauma Life Support (BTLS) course (within the last 3 years)
- Resume highlighting field experience
- Valid Class 1, 2 or 4 driver’s license
  Note: National Academy of Professional Driving certificate preferred
- Alberta College of Paramedics (ACP) registration

Prior to beginning practicums, students must complete medical forms, show proof of up-to-date immunizations, and obtain a clear criminal record check with vulnerable sector.

English Language Proficiency
- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

In addition to meeting English Language Proficiency students must also present appropriate admission requirements for their chosen program.

See page 12 for other ways to meet the English Language Proficiency requirement.

Admission Process
See Application Procedures on page 10.

Graduation Requirements
Pass mark of 75% in each theory course, and 80% in S03, S13 and S14 are required. The practical courses S09, S12 and S15 are pass/fail.

Program of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1: Term I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMTP 501</td>
<td>Anatomy &amp; Physiology</td>
<td>45</td>
</tr>
<tr>
<td>EMTP 502</td>
<td>Pathophysiology</td>
<td>96</td>
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<tr>
<td>EMTP 503</td>
<td>Pre-hospital Skills</td>
<td>60</td>
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<tr>
<td>Year 1: Term II</td>
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<td></td>
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<tr>
<td>EMTP 504</td>
<td>Aeromedical</td>
<td>138</td>
</tr>
<tr>
<td>EMTP 505</td>
<td>Pharmacology</td>
<td>45</td>
</tr>
<tr>
<td>EMTP 506</td>
<td>Obstetrics</td>
<td>45</td>
</tr>
<tr>
<td>EMTP 507</td>
<td>Physical Exam</td>
<td>45</td>
</tr>
<tr>
<td>EMTP 508</td>
<td>Advanced Pharmacology</td>
<td>45</td>
</tr>
<tr>
<td>Year 1: Term III</td>
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<td></td>
</tr>
<tr>
<td>EMTP 510</td>
<td>Paramedic Projects</td>
<td>45</td>
</tr>
<tr>
<td>EMTP 511</td>
<td>Emergency Diagnosis &amp; Treatment</td>
<td>96</td>
</tr>
<tr>
<td>Year 2: Term I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMTP 513</td>
<td>Advanced Life Support</td>
<td>64</td>
</tr>
<tr>
<td>EMTP 514</td>
<td>Advanced Skills</td>
<td>45</td>
</tr>
<tr>
<td>EMTP 509</td>
<td>Intermediate Ambulance Practicum</td>
<td>432</td>
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<tr>
<td>Year 2: Term II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMTP 512</td>
<td>Hospital Practicum</td>
<td>445</td>
</tr>
<tr>
<td>Year 2: Term III</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMTP 515</td>
<td>Final Ambulance Practicum</td>
<td>480</td>
</tr>
</tbody>
</table>

Course Descriptions
Please see page 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Bev Maron
Chair
Tel: (780) 791-4961
E-mail: beverly.maron@keyano.ca

Patricia Penton
Coordinator/Instructor Pre-Hospital Care Program
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To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
• DIPLOMA

Clearwater Campus

This program is approved by Alberta Advanced Education and Technology and is pending accreditation by the Alberta College of Social Work.

This Social Work Diploma program will equip students with the social work competencies required to enter the work force as beginning social work practitioners. Completion of the Social Work Diploma program will prepare and enable students to continue their education in a Bachelor of Social Work program at various Universities, including the University of Calgary’s Bachelor of Social Work degree program.

Admission Requirements
a. Alberta High School Diploma or equivalent with a mark of 50% in English 30/30-1 or equivalent.
b. Mature students (students who are 21 years or older), must meet the following criteria with or without a completed high school diploma:
   1. have been out of school for at least three consecutive years; AND
   2. have completed English 30-1 with 50% or equivalent.
   • All applicants will be asked to complete a pre-entry interview with the Chair of the SW diploma program.
   • Applicants will be asked to provide a current character reference from an employer, Band or Métis agency or leadership, elder, teacher, government official, or other approved source.
   • Prior to the beginning of the program, prospective students will be required to submit current Child Welfare and RCMP/Police checks and complete a Program Applicant Information package.

English Language Proficiency
• TOEFL: iBT – minimum score of 86 with no score below 21
• IELTS – minimum score of 6.5 with no score below 5.0
• CAEL – minimum score of 70
• MELAB – minimum score of 85
See page 12 for other ways to meet the English Language Proficiency requirement.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1: Term I (September - December) 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 124</td>
<td>Literary Analysis or 3 credits approved English</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 104</td>
<td>Basic Psychological Processes or 3 credits approved Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 110</td>
<td>Introduction to Human Services and Basic Counselling</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 130</td>
<td>Addictions and Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 201</td>
<td>Introduction to Social Welfare and Social Work</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2: Term I (January – April) 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 223</td>
</tr>
<tr>
<td>SOCY 100</td>
</tr>
<tr>
<td>SOWK 210</td>
</tr>
<tr>
<td>SOWK 225</td>
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<tr>
<td>SOWK 235</td>
</tr>
<tr>
<td>SOWK 255</td>
</tr>
</tbody>
</table>

Course Descriptions
Please see pages 134 to 211 for an alphabetical list of all proposed course descriptions.

For Further Information
Vincella Thompson, Chair
Tel: (780) 791-4833
E-mail: vincella.thompson@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
Under review, not accepting applications for 2014-2015.

- **DIPLOMA**

Clearwater Campus

The Visual Art & Design program provides students with a unique opportunity to acquire the foundation skills required for any number of careers in the arts. The Keyano program provides a stimulating environment where students will learn practical studio skills in a variety of media, develop academic skills in writing and history, learn relevant computer applications and media issues, as well as participate in gallery exhibitions. Class sizes, exceptional facilities, highly qualified and enthusiastic faculty make Keyano's Visual Art & Design program unique in the province.

**Admission Requirements**

a. High School Diploma, or equivalent with English 30/20-1 or English 33/30-2 and an interview. English 30/30-1 is recommended for all students as this course allows for the most post-secondary transfer options. Students who enter the program with English 33/30-2 and who wish to transfer may have to take English 030 and might not complete their transfer program in four terms as English 030 is not credited towards certificate or diploma requirements.

b. Mature students (students who are 21 years or older): English 30/30-1 or English 33/30-2, or equivalent and an interview.

c. Students missing the required English grades or courses may complete a writing assessment from which an individual program of study will be developed. Students may be allowed to enroll in one or both of Art 240 and Art 231 while completing or upgrading required high school subjects.

**English Language Proficiency**

- TOEFL: iBT – minimum score of 79 with no score below 19
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

**Admission Process**

See Admission Procedures on page 10.

**Program of Study**

<table>
<thead>
<tr>
<th>Year 1: Term II (September - December)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 101 Introduction to the History of Art I</td>
<td>3</td>
</tr>
<tr>
<td>ART 232 Two Dimensional Art and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 240 Introductory Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 291 Media in Art I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1st Year University Level or OPTION (approved elective)</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Year 1: Term I (January – April)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 102 Introduction to the History of Art II</td>
<td>3</td>
</tr>
<tr>
<td>ART 233 Three Dimensional Art &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 292 Media in Art II or ART 293 Media in Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 340 Introductory Drawing II</td>
<td>3</td>
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<tr>
<td>ENGL 1st Year University Level or OPTION (approved elective)</td>
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<table>
<thead>
<tr>
<th>Year 2: Term I (September - December)</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 312 Introductory Painting</td>
<td>6</td>
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<tr>
<td>OPTION: Printmaking</td>
<td></td>
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<tr>
<td>One of: ART 324 – 327</td>
<td>3</td>
</tr>
<tr>
<td>OPTION: Art History</td>
<td></td>
</tr>
<tr>
<td>One of: ART 271 – 273 or 281 – 283</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
</tr>
<tr>
<td>ART 393 Media in Art III or approved elective</td>
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<table>
<thead>
<tr>
<th>Year 2: Term II (January – April)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 362</td>
<td>6</td>
</tr>
<tr>
<td>OPTION: Printmaking</td>
<td></td>
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<tr>
<td>One of: ART 324 – 327</td>
<td>3</td>
</tr>
<tr>
<td>OPTION: Art History</td>
<td></td>
</tr>
<tr>
<td>One of: ART 271 – 273 or 281 – 283</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
</tr>
<tr>
<td>ART 394 Media in Art IV3 or approved elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Course Descriptions**

See pages 134 to 211 for an alphabetical list of all course descriptions.
UNIVERSITY PROGRAMS

• BACHELOR OF SCIENCE IN NURSING (BScN)
• PRE-NURSING PROGRAM

Clearwater Campus

BACHELOR OF SCIENCE IN NURSING
The Keyano College Nursing department in collaboration with the University of Alberta offers a four-year baccalaureate program at Keyano College. Upon graduation, students will be prepared to write the Canadian Registered Nurse Examination.

Although this program is based on the curriculum of the University of Alberta Collaborative Baccalaureate Nursing program, it is unique in its emphasis on health promotion and wellness.

Students will receive clinical nursing experience each term, in a variety of settings (including community and institutional experiences). In addition to working days, students may be required to work some evening, nights and weekend shifts in the clinical settings.

A student graduating from the baccalaureate program will be awarded a Bachelor of Science in Nursing (BScN) from the University of Alberta.

Admission Requirements
a. A minimum overall average of at least 70% (60% in English required) in five appropriate matriculation subjects, with no mark below 50%.

   Required subjects are:
   • English 30 or 30-1
   • Biology 30
   • Chemistry 30 or Science 30
   • One of Math 30-1, 30-2 or Math 31
   • Subject from Group A, B or C

b. The student is required by Alberta Health Services to provide the educational institution with a Police Information Check and Vulnerable Sector Check one time, provided the student maintains enrolment in the program with no lapse of more than two (2) consecutive full terms.

   The student, during enrolment in the program, must self-report any change in criminal convictions or criminal charges to the Chairperson of the Nursing and Allied Health Studies Department.

   When a Police Information Check shows any one or more boxes checked off indicating that information “may or may not exist”, the student will be directed to consult with Chair of the Nursing and Allied Health Services Department for further information.

   The cost of a Police Information Check is the student’s responsibility. Police Information Check and Vulnerable Sector Check must be dated no earlier than July 1st.

c. Three letters of reference.

Clinical Requirements
• CPR certification at the Health Care Provider level dated no earlier than April 30th. Evidence of recertification in each subsequent year is required.
• Up-to-date immunization record provided to Health Services

Mature Student Entry
• Applicants over 21 years of age must present an overall average of at least 70% with no mark below 60% in English 30/30-1 and no mark below 50% in Chemistry 30 OR Science 30, and Biology 30.

Also see General Admission Requirements on page 91.

English Language Proficiency
English is the primary language of instruction at Keyano College. English Language Proficiency is sufficient if applicants can present the successful completion of three or more years of full-time education in English, normally including the grade 12 year or higher, in a Canadian school (or an approved school outside of Canada with accepted English proficiency). If an applicant does not present these years of English education, they may be able to meet this requirement in other ways.

• TOEFL: iBT of least 86 with no score below 21
• IELTS with at least a 6.5 with no score below 5.0
• CAEL minimum score of 70
• MELAB minimum score of 85

See page 12 for other ways to meet the English Language Proficiency

Spoken Language Proficiency Requirement
In addition to demonstrating English Language Proficiency, applicants whose first language is not English, regardless of country of origin or citizenship must also present Spoken Language Proficiency. Applicants who have six or more years of full-time education in English, normally including the grade 12 year or higher, in a Canadian school (or an approved school outside of Canada with accepted English proficiency) meet this requirement. If applicants do not present these years of English education, they may be able to meet this requirement by presenting:

• A minimum of 26 on the speaking band of the TOEFL: iBT or
• A minimum of 7.5 on the IELTS speaking band

In addition to meeting English Language and Spoken English requirements (where required), students must also present the appropriate coursework to meet the admission requirements for their chosen program.
UNIVERSITY PROGRAMS

BACHELOR OF SCIENCE IN NURSING

Selection Procedures of BScN Students
Admission into the Nursing program will be based on academic achievement. Applications will be accepted from October 1 to June 15 for entry into the program.

Conditional offers of acceptance into the first year of Nursing will be granted to applicants who meet the admission requirements, and to those current high school students who present a GPA of at least 75% or greater based on three first semester completed Grade 12 core subjects upon receipt of transcripts and second semester course enrollment. An official transcript confirming passing grades and presenting the competitive GPA in all required core courses must be provided before final acceptance will be granted.

Students with post-secondary educational credits will be rank ordered using the required high school courses and the last relevant 24 credits of post-secondary work: 60% of the GPA is derived from high school and 40% of the GPA is derived from relevant post-secondary courses.

All Official transcripts must be received no later than July 15.

The competitive entry process will be completed and final acceptances will be offered and students will be notified no later than July 30. Applicants who do not meet the competitive average, will be offered the opportunity to apply and be considered for the Pre-Nursing program and encouraged to re-apply for the next BScN intake.

Applicants of Aboriginal Ancestry
Five positions per year are made available in the Nursing program for qualified applicants of Aboriginal ancestry. If qualified applicants of Aboriginal ancestry are not admitted by June 15, the positions may be filled with students of non-Aboriginal ancestry. Aboriginal ancestry is defined within the Constitutional Act of 1982, Section 35, Subsection 2. According to this Constitutional Act, Aboriginal peoples of Canada include Inuit, Indian and Metis peoples of Canada (Department of Justice, Canada, 1982).

GPA Calculation
For purposes of academic progression from one year of the Nursing program to the next, GPA (grade point average) is calculated based on courses completed during the academic year, between July 1 and June 30. See page 31 for the formula to calculate GPA.

For purposes of admission to the University of Alberta, GPA is calculated based on all courses completed to April 30 of that academic year, due to admission deadlines.

Progression Policy
A passing grade of C- for all courses and an overall yearly GPA of 2.0 is required for all students to progress. Students who fail a second clinical course or a clinical course for the second time during their program will be required to withdraw from the program.

Academic Performance
Initial assessment and subsequent reassessment of academic standing is based on students’ performance in a minimum of 9 credits. If, at the time of review, students have attempted fewer than 9 credits since the last assessment, the review is deferred, and the academic standing assigned at the last review remains in effect until the next review.

Assessment of academic performance is conducted at the end of each student’s registration in both Fall/Winter and Spring/Summer provided that 9 credits have been attempted since the last review. This assessment is conducted by the Chair of the Nursing Program.

a. Satisfactory Standing: For yearly promotion, a student must pass all courses and obtain a minimum GPA of 2.0.

b. Whenever a student receives a grade of F, D, D+, or C- in a nursing course, the student’s total academic and clinical performance is reviewed by the Chair of the Nursing Program at the end of each term and considered in determining continuation in the program.

c. Unsatisfactory Standing: A student with a GPA less than 2.0 must withdraw from the Nursing Program.

i. To be considered for readmission, a student who has been required to withdraw from the Nursing Program must present a minimum of 18 transferable credits with a GPA of at least 2.7, of which 9 credits must be Anatomy and Physiology with a minimum grade of B-.. The student must also satisfy any conditions as specified at the time of withdrawal.

ii. In order to protect the public interest, students who have been required to withdraw and are applying for readmission will be required, as part of the admission process, to demonstrate nursing knowledge and skills learned to date in order to determine an appropriate placement in the program.

iii. Students who have been required to withdraw and who, after being readmitted, have GPA’s below 2.0 will be required to withdraw and not be readmitted to the Nursing Program.
# BACHELOR OF SCIENCE IN NURSING

## Program of Study
This program of study applies to those individuals entering into the first year of the Nursing Program in the 2014-2015 year. This is subject to approval from the Nursing Education Program Approval Board (NEPAB) expecting to occur in June 2014.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>ENGL</td>
<td>Junior English</td>
<td>3</td>
</tr>
<tr>
<td>MMI 133</td>
<td>Medical Microbiology for Nurses</td>
<td>3</td>
</tr>
<tr>
<td>NURSE 113</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>NURSE 114</td>
<td>Introduction to Nursing Theory I</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 116</td>
<td>Introduction to Health Assessment</td>
<td>4</td>
</tr>
<tr>
<td>NURSE 117</td>
<td>Anatomy and Physiology</td>
<td>6</td>
</tr>
<tr>
<td>PSYCH 106</td>
<td>Psychological Principals for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Intersession (May – June)</strong></td>
<td></td>
<td>3.00</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td>3.00</td>
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</table>

All year one courses must be completed prior to entering year two.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>NURSE 115</td>
<td>Pharmacotherapeutics in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURSE 206*</td>
<td>Introduction to Nursing Theory II</td>
<td>3</td>
</tr>
<tr>
<td>NURSE 207*</td>
<td>Introduction to Nursing Practice</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 208*</td>
<td>Mental Health Nursing Theory</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 209*</td>
<td>Mental Health Nursing Practice</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 388</td>
<td>Research &amp; Statistics</td>
<td>6</td>
</tr>
<tr>
<td>ELECTIVE</td>
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<td>3</td>
</tr>
</tbody>
</table>

*Note: 206 & 207 must be taken together in the same term. 208 & 209 must be taken together in the same term.

All year two courses must be completed prior to entering year three.

## Non-Nursing Courses:
- SOCY 100
- English Elective
- Political Science Elective
- Philosophy Elective
- Elective (2)

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>NURSE 307*</td>
<td>Acute Care Nursing Theory</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 308*</td>
<td>Acute Care Nursing Practice</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 309*</td>
<td>Community Nursing Theory</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 310*</td>
<td>Community Nursing Practice</td>
<td>6</td>
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<tr>
<td>ELECTIVE</td>
<td></td>
<td>5</td>
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</tbody>
</table>

*Note: 309 & 310 must be taken together in the same term. 307 & 308 must be taken together in the same term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>NURSE 405</td>
<td>Acute Care Nursing Theory II</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 406</td>
<td>Acute Care Nursing Practice II</td>
<td>6</td>
</tr>
<tr>
<td>NURSE 407</td>
<td>Leadership &amp; Issues in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURSE 494</td>
<td>Nursing in Context D1</td>
<td>3</td>
</tr>
<tr>
<td>NURSE 495</td>
<td>Nursing Practice VIII</td>
<td>9</td>
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<table>
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<tr>
<th>Non-Nursing Courses:</th>
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<tr>
<td>SOCY 100</td>
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<tr>
<td>English Elective</td>
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<tr>
<td>Political Science Elective</td>
</tr>
<tr>
<td>Philosophy Elective</td>
</tr>
<tr>
<td>Elective (2)</td>
</tr>
</tbody>
</table>
This program of study applies to those individuals registered in the Nursing Program prior to the 2014-2015 year.

### Course | Course Title | Credits
--- | --- | ---
**Year 1: Term I (September - December)** | 19
NURSE 117 | Anatomy and Physiology I | 6
NURSE 190 | Nursing in Context A | 7
NURSE 191 | Nursing Practice I | 3
PSYCH 106 | Psychological Principals for Nursing | 3
**Year 1: Term II (January – April)** | 17
NURSE 115 | Pharmacotherapeutics in Nursing | 3
NURSE 118 | Anatomy and Physiology II | 3
NURSE 194 | Nursing in Context A1 | 5
NURSE 195 | Nursing Practice II | 6
**Intersession (May – June)** | 3
ELECTIVE: English (ENGL 108 recommended) | 3
**Year 2: Term I (September - December)** | 13-15
NURSE 290 | Nursing in Context B | 5
NURSE 294 | Nursing in Context B1 or A | 5
NURSE 295 | Nursing Practice IV or V | 7
NURSE 291 | Nursing Practice III | 7
MMI 133 | Medical Microbiology for Nurses | 3
**Year 2: Term II (January – April)** | 15-17
NURSE 291 | Nursing Practice III | 7
NURSE 295 | Nursing Practice IV or V | 7
NURSE 294 | Context B1 Nursing Practice IV | 5
SOCY 100 | Introductory Sociology | 3
**Intersession (May – June)** | 3
ELECTIVE | 3

To proceed to third year all courses listed in Year 1 and Year 2 must have been passed.

Note: The above pattern is the suggested order that non-nursing courses be completed. All non-nursing courses MUST be completed by the end of the Fall semester of Year 4.

To proceed with NURSE 494, students must have passed all courses of the program except NURSE 495.
PRE-NURSING

PRE-NURSING PROGRAM
The Pre-Nursing Program at Keyano College allows students to complete their non-Nursing courses such as Psychology, Sociology, Political Science, etc within the University Studies department. Students may also be accepted to a Pre-Nursing year in order to complete the upgrading required for admission to the BScN program at the same time as completing required non-Nursing courses.

Note: Students are not automatically accepted into the BScN program if they complete a Pre-Nursing year. Students must apply to the BScN program and their application will be considered on an academic achievement basis as outlined in the admission requirements.

Please contact a Student Advisor regarding program planning.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

Course Descriptions
Please see pages 134 to 211 for an alphabetical list of all course descriptions.

Nursing courses are restricted to full-time Nursing students. Exceptions will be made on a case-by-case basis.

For Further Information
Bev Maron
Chair
Tel: (780) 791-4889
E-mail: beverley.maron@keyano.ca

To Apply
Office of the Registrar
Keyano College
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Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
UNIVERSITY STUDIES

Clearwater Campus

Degree Completion
Students may earn a university degree in Fort McMurray through innovative joint programs between Keyano College and the University of Alberta.

Degree Completion at Keyano College
University of Alberta
- Bachelor of Science in Nursing
- Bachelor of Education in Elementary Education

University Transfer
Keyano College offers one to two years of transferable university course work toward a variety of degree programs. Once students have decided on a university, use the Keyano College Calendar, the Alberta Transfer Guide, and the current calendar of the chosen institution for program planning and transferability.

In order to successfully transfer to the institution to which the student plans to apply for degree completion, they will need to meet the admission and course requirements set out by the receiving institution. Courses must be transferable, must fit the program, and the academic standing must at least meet the minimum required by the institution. If students have any questions or want to discuss their program, consult with a Student Advisor.

University Transfers at Keyano College
- Bachelor of Arts
- Bachelor of Commerce
- Bachelor of Education
- Bachelor of Fine Arts
- Bachelor of Science
- Bachelor of Science in Engineering
- Bachelor of Social Work
- Pre-Professional programs

Transfer of Courses
Keyano College’s University Studies program has been developed in close cooperation with the University of Alberta. The University approves courses before they are offered, and content and credit weights are identical to the University.

While the majority of university transfer courses at Keyano College are modeled on the University of Alberta courses, students can successfully apply to transfer to the University of Lethbridge, Mount Royal University, Grant MacEwan, and the University of Calgary. Students can also transfer successfully to degree-granting institutions elsewhere in Canada. In the past, Keyano College students have transferred into second or third-year at the University of Saskatchewan, the University of Victoria and Memorial University, to name a few. It is advisable that students consult with a Student Advisor for further details.

Please note that every university has its own policy regarding minimum grades needed for transfer credit. Students transferring to the University of Alberta must achieve a minimum grade of C- in each course and an overall GPA of 2.0 in order to obtain course credit from the university.

Students transferring to the University of Calgary or the University of Lethbridge must achieve a minimum grade of D in each course and an overall GPA of 2.0 in order to obtain course credit from the university.

Students are responsible for making sure that the courses they register in can be transferred to the university they plan to attend. Students are also responsible for making sure the courses meet future program requirements. Contact a Student Advisor for assistance.

Check the transferability of courses by consulting the “Alberta Transfer Guide” online at transferalberta.ca.

University Transfer Recognition
Keyano College recognizes the academic achievements of students in its University Transfer Programs. If a student successfully completes sixty (60*) credits of university level coursework with a minimum grade point average of 1.7, that student may qualify for a Keyano College Diploma.

For more information on Keyano College’s University Studies programs, call the Office of the Registrar at (780) 791-4801.

Course Descriptions
Course descriptions for all University Studies courses are listed in alphabetical order on pages 134 to 211. Course prerequisites and co-requisites are listed at the end of the description.
ADDITIONAL COURSE INFORMATION AND HELPUL DEFINITIONS

Prerequisite Course Requirements
Students registering in courses for which a prerequisite is listed must meet that requirement. At Keyano College, a grade of C- is the minimum grade acceptable in a course that is to be used as a prerequisite. Students, who are unsure if they meet the prerequisite requirement in a course, or wish to obtain permission to have a prerequisite waived, should consult with the University Studies Chair or a Student Advisor.

Co-requisite Course Requirements
Students registering in courses at Keyano College for which a co-requisite is listed must also register in the co-requisite course or have previously passed the co-requisite course with a minimum grade of C-. Students, who are unsure if they meet the co-requisite requirements of a course, or wish to obtain permission to have a co-requisite waived, should consult with the University Studies Chair or a Student Advisor.

Units of Course Weight
* indicates units of course weight or credits. The accompanying number normally indicates the weight of the course as used in computing grade point averages and for meeting degree requirements.

Repeating of Courses
Consult the university calendar in which the student plans to transfer regarding their policies on repeating of courses. Normally, only the first passing grade is used in calculating the grade point average(s) for admission purposes.

Course Availability
Inclusion of a course in the following program outlines, or in the course description section of this calendar does not guarantee that the course will actually be offered in the forthcoming academic year. Information about courses to be offered, names of instructors, and all further details must be sought from a Student Advisor, University Studies Chair, or from the Office of the Registrar.

Academic Advice
A Student Advisor is available to assist in obtaining necessary information to transfer. It is recommended that students read the program requirements in the calendar carefully. The main functions of academic advising are to:
- assist in program planning
- explain regulations
- ensure that registration meets the program requirements at Keyano College
- assist in selecting courses that meet university transfer requirements
- make referrals to on- and off-campus services

Students are cautioned against following advice from anyone except an authorized Student Advisor, Counsellor, Program Chair or the Registrar.

For Further Information
Office of the Registrar
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Vincella Thompson
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GENERAL ADMISSION REQUIREMENTS

Admission requirements differ from one university to another. Students must ensure that they meet the admission requirements for the transfer university. See the following program descriptions, university calendars and Student Advisors at Keyano College.

Important Notice: To transfer, students must meet the minimum requirements of the university they plan to attend, regardless of the Keyano College program admission criteria. Specific High School requirements will depend both on the university intended to transfer to and the major. To be certain, please check with a Student Advisor. It is usually possible to take Keyano College courses that are equivalent to these 30 level courses.

Keyano College Admission Requirements
For admission to Keyano College University Studies Programs, each applicant must be 18 years of age and/or normally possess an Alberta High School Diploma or Canadian Provincial equivalent. Students must possess an average of at least 60% in five appropriate subjects, including English 030 or English 30-1, and a mark of at least 50% in each. Official transcripts from all secondary and post-secondary educational institutions that the student has attended are required.

Group A (Humanities)
• Social Studies 30
• Language (other than English 30 or 30-1)
• Second Language (other than English 30 or 30-1)
• Aboriginal Studies 30 (cannot be used for admission with Social Studies 30)

Group B (Fine Arts)
• Applied Graphic Arts 35
• Art 30
• Art 31
• Commercial Art A, B, or C
• Communication Technology Advanced (5 Credits)
• Dance 35
• Drama 30
• Music 30 (Choral, Instrumental, or General) (5 Credits)
• Music 35
• Musical Theatre 35
• Performing Arts 35 - A, B, or C

Group C (Sciences)
• Biology 30
• Chemistry 30
• Mathematics 30-1
• Mathematics 30-2 (acceptable for some programs)
• Mathematics 31
• Physics 30
• Science 30
• Computer Science (CSE) Advanced Level,
• Career and Technology Studies (CTS) (5 credits)

Group D (Optional Subjects)
Please note: Students must check their intended transfer institution for acceptability. Group D subjects are not acceptable for admission to the University of Alberta.

Students using a Group D subject for admission must present either one five-credit D subject, or any combination of two three-credit D subjects from the following:
• Experimental Psychology 30
• World Religion 30
• Religious Studies 35
• World Geography 30
• Philosophies of Man 30
• Micro-Economics 30
• Macro-Economics 30

Students may alternatively present five credits of CTS studies at the advanced level from the following stands:
• Design Studies
• Fashion Studies
• Foods
• Financial Management
• Legal Studies
• Information Processing
• Management and Marketing
• Construction Technologies
• Fabrication Studies and Mechanics

University Studies – Matriculation
Applicants with an average of 60% in three matriculation subjects may be admitted to a combined College Preparation/University Transfer program. Grade 12 deficiencies must be removed during the 12-month period following registration. Once students have fulfilled all matriculation requirements they may apply for admission to the university transfer program area of their choice.

Equivalents to Alberta Grade 12
Within Canada
British Columbia, Manitoba, New Brunswick, Northwest Territories, Nova Scotia, Nunavut, Prince Edward Island, Saskatchewan, Yukon
• Grade 12 graduation.

Ontario
• Grade 13 graduation prior to September 1987 or
• Grade 12 graduation after September 1987 – Ontario Advanced Credit courses.

Newfoundland
• Grade 12 or successful completion of one year at Memorial University.

Quebec
• Successful completion of the first year of the C.E.G.E.P. academic program with satisfactory performance in appropriate subjects.
UNIVERSITY PROGRAMS

GENERAL ADMISSION REQUIREMENTS

Outside of Canada
On matters where admissions policy for international applicants is silent, the University of Alberta's calendar and associated policies and regulations will be consulted.

United States
- Applicants from the United States will be considered for admission if they present a full academic high school program plus scores in College Entrance Examination Board Scholastic Aptitude Tests and in achievement tests specified by the College. They will be required to present scores that compare favourably with the mean scores achieved by Alberta matriculants.

Great Britain, West Indies, East and West Africa, Hong Kong
- General Certificate of Education: either,
  i. five passes, of which two should be at the advanced level, or
  ii. four passes with three at the advanced level are required.

  The remaining passes must be at the ordinary level.

- High School Certificate: either,
  i. five passes with two at the Principal Standard, or
  ii. four passes with three at the Principal Standard

  The remaining passes must be at the Subsidiary Standard (Credit Level passes, or higher, in the examination for the School Certificate will be accepted in lieu of Subsidiary Standard passes).

West African School Certificate
Credit Level passes, or higher, in the examination for the West African School Certificate will be accepted in lieu of Ordinary Level passes. Students must meet the remaining admission requirements as for the General Certificate of Education.

Hong Kong Examination Authority
Hong Kong Certificate of Education Examinations and Hong Kong Advanced Level Examinations:
  i. five passes with two at the Advanced Level, or
  ii. four passes with three at the Advanced Level are required

Passes at the Ordinary Level standard in the Hong Kong Certificate of Education examinations are required in the remainder of the subjects prescribed for admission (Hong Kong Higher Level passes may be used in lieu of Ordinary Levels).

Note A: A chemistry at the Advanced Level or Principal Standard is required for admission to the faculties of engineering, science, nursing, pharmacy and pharmaceutical sciences, pre-dental hygiene pre-medical laboratory science.

Note B: Mathematics at the Advanced Level or Principal Standard is required for admission to the faculties of business, engineering, rehabilitation medicine and science, pre-veterinary program.

Note C: Required subjects presented at the Advanced and Ordinary Levels must meet our minimum average of 60%.

Australia and New Zealand
- Leaving, or Matriculation Certificates, or University Entrance Examination:

  In general, students who have matriculated or qualified to matriculate at a university of recognized standing in Australia or New Zealand, will be considered for admission to the College on a reciprocal basis, subject to the requirements for the first-year courses in each program.

  For more information please consult Office of the Registrar at (780)791-4801.

English Language Proficiency
- TOEFL: iBT – minimum score of 86 with no score below 21
- IELTS – minimum score of 6.5 with no score below 5.0
- CAEL – minimum score of 70
- MELAB – minimum score of 85

See page 12 for other ways to meet the English Language Proficiency requirement.

Spoken Language Proficiency
Required for applicants to the Health Science and Teaching Disciplines:
- TOEFL: iBT – minimum score of 26 on the speaking band
- IELTS (Academics) - minimum score of 7.5 on the speaking band
COLLABORATIVE UNIVERSITY DEGREE PROGRAMS

BACHELOR OF SCIENCE IN NURSING
See page 84 for the collaborative degree program offered for the Bachelor of Science in Nursing program (BScN).

BACHELOR OF EDUCATION
See page 100 for the collaborative degree program offered for the Bachelor of Education.

BACHELOR OF ARTS

Students can complete one to two years (60 credits) of the Bachelor of Arts degree at Keyano College. The Bachelor of Arts program is open to both full and part-time students unless otherwise indicated. If a student is interested in a major or minor not listed or described, please consult with a Student Advisor.

Honours
Honours programs are designed to prepare students particularly well for advanced study at the Masters’ or Doctoral level in the major field of interest. A high standard of performance is required in Honours programs. Most universities offer Honours programs in the same fields as the Majors. Students should consult with a Student Advisor for details.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

Admission Requirements
See General Admission Requirements on page 91.

Minimum average of 60% with no mark below 50% in:
• English 30-1 or English 030
• 4 subjects from group A, B or C
  (Only one B subject may be presented for admission).

In order to maximize their future program and course choices, all students are encouraged to present a broad range of subjects across the Humanities and Sciences.

Notes:
1. For a major in Economics students must take Mathematics 30-1 and Mathematics 31 is recommended. Mathematics 30-1 does not have to be included as one of the five 30-level subjects used for admission, but the major requires courses for which Mathematics 30-1 is a prerequisite.

2. For a major in Mathematics students must present both Mathematics 30-1 and Mathematics 31. For a minor in Mathematics students should present Mathematics 30-1. Mathematics 30-1 and Mathematics 31 do not have to be included in the five 30-level subjects used for admission, but the discipline requires courses for which Mathematics 30-1 and Mathematics 31 are prerequisites.

3. For programs in Political Science students should present Social Studies 30.

4. For a major or minor in Psychology students should present Mathematics 30-1 or Mathematics 30-2.

5. Students intending to transfer to the School of Business must present Mathematics 30-1. Prerequisite courses required for admission to the Business program require Mathematics 30-1 and a 30-level Science course.

6. Students intending to transfer to the Faculty of Education, particularly to Elementary Education, should present Mathematics 30-1 or 30-2.

Mature Student
Must be 21 years of age (at time of registration), and have a minimum average of 60% with no mark below 50% in:
• English 30-1 or English 030
• Subject from Group A, B or C
**BACHELOR OF ARTS**

**UNIVERSITY OF ALBERTA**

**Bachelor of Arts**

The Bachelor of Arts degree at the University of Alberta is a 120-credit degree which requires appropriate course work that includes a major and a secondary subject of concentration (minor). As well, for all programs, there is a required core of courses. The Core Requirements (42*) are designed to give the foundations of a liberal arts education. Students are advised to complete the core in the first two years of their program.

**Compulsory Core Program Requirements**

**Year I:**
6 credits of Junior English

6 credits in the Study of Science
- Biology 107, 108; Chemistry 101, 102, 261; Computing Science 101, 174, 175; EAS 100, 105; Mathematics 1113, 1115, 1120; Physics 124, 126; Psychology 104; Statistics 151

6 credits from Group 1
- Art, Art History, Drama, Film Studies

6 credits from Group 2
- History 111, 112, 260, 261; Philosophy 101, 102

6 credits from Group 3
- Economics 101, 102; Political Science 101, 210; Psychology 105; Sociology 100, 102

A major (normally requires a minimum of 30* to a maximum of 42* at the senior level) A minor (normally requires a minimum of 12* to a maximum of 42* at the senior level) Up to 18* in Open Options.

Please refer to the University of Alberta Arts Core Courses chart for course equivalents at Keyano College.

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**University of Alberta Arts Core Courses available at Keyano College**

<table>
<thead>
<tr>
<th>6* English</th>
<th>ENGL (6*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6* LOE</td>
<td>CREE (6*) FREN (6*)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6* Study of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL</td>
</tr>
<tr>
<td>COMSC</td>
</tr>
<tr>
<td>CHEM</td>
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<tr>
<td>EAS</td>
</tr>
<tr>
<td>MATH</td>
</tr>
<tr>
<td>PHYS</td>
</tr>
<tr>
<td>PSYCH 104</td>
</tr>
<tr>
<td>STAT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6* Group 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
</tr>
<tr>
<td>ARTH</td>
</tr>
<tr>
<td>DRAMA</td>
</tr>
<tr>
<td>FST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6* Group 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 111, 112, 260, 261</td>
</tr>
<tr>
<td>PHIL 101, 102</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6* Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101</td>
</tr>
<tr>
<td>ECON 102</td>
</tr>
<tr>
<td>POLSC 101</td>
</tr>
<tr>
<td>PSYCH 105</td>
</tr>
<tr>
<td>SOCY 100</td>
</tr>
<tr>
<td>SOCY 102</td>
</tr>
</tbody>
</table>
## UNIVERSITY OF ALBERTA MAJORS

**Offered at Keyano College**

The following program description lists suggested Year 1 patterns only. For Year 2 course patterns, consult with a Student Advisor.

If a student is interested in a major not listed here, contact a Student Advisor, as it may be possible to arrange a program of study.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

### Anthropology
- 6* Junior English
- ANTHR 101 (3*)
- 21* chosen from Arts Core courses/options.

### Art and Design
- 6* Junior English
- ART 231 (6*)
- ARTH 101/102 (6*)
- 12* chosen from Arts Core courses/options.

### Criminology
(30 credits required)
- 6* Junior English
- PSYCH 104/105 (6*)
- SOCY 100 (3*)
- Language other than English - FREN 111/112 or 211/212 or CREE 100 (6*)
- 9* chosen from Arts Core courses/options.

Credit will not be granted for a 100-level language course if a 30 level course in high school was completed in the same language.

### Economics
- 6* Junior English
- ECON 101/102 (6*)
- MATH 1113/1115 (6*)
- MATH 1120 (3*)
- STAT 151 (3*)
- 6* chosen from Arts Core courses/option (Computer Science courses recommended as options).

### English and Creative Writing
- 6* Junior English
- FREN 111/112 or 211/212 or CREE 100 (6*)
- 18* chosen from Arts Core courses/options.

Credit will not be granted for a 100 level language course if a 30 level course in high school was completed in the same language.

### History
- 6* Junior English
- HIST 111/112 (6*) or HIST 260/261 (6*)
- FREN 111/112 or 211/212 or CREE 100 (6*)
- 12* chosen from Arts Core courses/options.

Credit will not be granted for a 100 level language course if a 30 level course in high school was completed in the same language.

### Mathematics
- 6* Junior English
- MATH 1113/1115 (6*)
- MATH 1120 (3*)
- 15* chosen from Arts Core courses/option (ECON 101/102 (6*) recommended options).

### Native Studies
- 6* Junior English
- NATST 110 (3*)
- CREE 100 (6*)
- 15* chosen from Arts Core courses/options.

Credit will not be granted for a 100 level language course if a 30 level course in high school was completed in the same language.

### Philosophy
- 6* Junior English
- PHIL 101/102 (6*)
- FREN 111/112 or 211/212 or CREE 100 (6*)
- 12* chosen from Arts Core courses/options.

Credit will not be granted for a 100 level language course if a 30 level course in high school was completed in the same language.

### Political Science
- 6* Junior English
- POLSC 101 (3*)
- FREN 111/112 or 211/212 or CREE 100 (6*)
- 15* chosen from Arts Core courses/options.

Credit will not be granted for a 100 level language course if a 30 level course in high school was completed in the same language.

### Psychology
- 6* Junior English
- PSYCH 104/105 (6*)
- SOCY 100 (3*)
- STAT 151 (3*)
- 12* chosen from Arts Core courses/option.

### Sociology
- 6* Junior English
- SOCY 100/102 (6*)
- 18* chosen from Arts Core courses/options.

### Women’s Studies
- 6* Junior English
- 24* chosen from Arts Core courses/option.
BACHELOR OF ARTS

BACHELOR OF ARTS
UNIVERSITY OF CALGARY

Bachelor of Arts
The Bachelor of Arts degree at the University of Calgary is a 120-credit degree, which requires appropriate coursework that includes a major. A major includes a certain number of courses taken in one field of study. Completion of the degree also requires students to complete a specific number of credits from different faculty areas. See the University of Calgary calendar and/or a Student Advisor for more information.

Humanities General requirements
- at least 24* from outside the Faculty of Humanities
- at least 3* in Logic or Mathematics
- at least 12* in each of two of the three areas: Area A (scientific thought), Area B (creative and artistic impression), Area C (social analysis)
- at least 12* in Language and/or Culture.

Please refer to the University of Calgary Social Sciences Core Courses chart for course equivalents at Keyano College.

Depending on the major chosen, some courses may fall under different categories than those listed. Advisors will assist in course selections for a University of Calgary transfer program.

Note: Although a second language at the 30-level may be used in lieu of Math 30-1 for admission purposes to the University of Calgary, Math 30-1 is required for admission to the Faculties of Science and Social Science, as well as for General Studies major programs.

University of Calgary - Humanities Core courses available at Keyano College

<table>
<thead>
<tr>
<th>12* Area A</th>
<th>BIOL</th>
<th>CHEM</th>
<th>COMSC</th>
<th>EAS</th>
<th>MATH</th>
<th>PHYS</th>
<th>PSYCH 390</th>
<th>STAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>12* Area B</td>
<td>ART</td>
<td>ARTH</td>
<td>DRAMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12* Area C</td>
<td>CREE</td>
<td>ECON</td>
<td>HIST</td>
<td>NATST</td>
<td>POLSC</td>
<td>PSYCH (except PSYCH 390)</td>
<td>SOCY</td>
<td></td>
</tr>
</tbody>
</table>

University of Calgary - Social Sciences Core courses available at Keyano College

<table>
<thead>
<tr>
<th>12* Area I</th>
<th>ARTH</th>
<th>ENGL</th>
<th>FREN</th>
<th>PHIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>12* Area II</td>
<td>CREE</td>
<td>ECON</td>
<td>HIST</td>
<td>NATST</td>
</tr>
<tr>
<td>12* Area III</td>
<td>BIOL</td>
<td>CHEM</td>
<td>COMSC</td>
<td>EAS</td>
</tr>
</tbody>
</table>

UNIVERSITY OF CALGARY MAJORS
Offered at Keyano College

The following program descriptions, lists suggested Year 1 patterns only. For second year course patterns, consult with a Student Advisor.

If a student is interested in a major not listed here, contact a Student Advisor. It may be possible to arrange a program of study.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

HUMANITIES
General Humanities
- 6* Junior English
- PHIL 101/102 (6*)
- FREN 111/112 or CREE 100 (6*) or NATST 110 (3*)
- 12* Humanities Core courses/options.

English
- 3* Junior English
- FREN 111/112 or CREE 100 (6*) or NATST 110 (3*)
- 12* Humanities Core courses/options
- 6* Open Options.

French
- 6* Junior English
- FREN 211/212 (6*)
- 12* Humanities Core courses/options
- 6* Open Options.
BACHELOR OF ARTS

Philosophy
- 6* Junior English
- PHIL 101/102 (6*)
- 12* Humanities Core courses/options
- 6* Open Options.

Social Sciences Anthropology
- 6* Junior English
- ANTHR 101 (3*)
- 12* Core courses/options
- 9* Open Options.

Economics
- 6* Junior English
- ECON 101/102 (6*)
- MATH 1120 (3*)
- MATH 1113 (3*)
- STAT 151 (3*)
- 9* Core courses/options.

History
- 6* Junior English
- HIST 111/112 (6*)
- HIST 260/261 (6*)
- 12* Core courses/options.

Political Science
- 6* Junior English
- POLSC 101 (3*)
- 6* Senior Political Science
- 15* Core courses/options.

Psychology
- 6* Junior English
- PSYCH 104/105 (6*)
- 12* Core courses/options
- 6* Open Options.

Sociology
- 6* Junior English
- SOCY 100/102 (6*)
- 12* Core courses/options
- 6* Open Options.

UNIVERSITY OF LETHBRIDGE
Bachelor of Arts

The Bachelor of Arts degree at the University of Lethbridge is a 120-credit degree, which requires appropriate course work that includes a major area of specialization. As well, there is a required core of courses, referred to as the General Liberal Education Requirement.

General Liberal Education requirement
By graduation, students must complete at least 12 courses (36*) in total from the following:
- at least 12* from List I “Fine Arts and Humanities”
- at least 12* from List II “Social Sciences”
- at least 12* from List III “Sciences”.

Students are encouraged to complete these requirements by the end of their second year. Please refer to the University of Lethbridge General Liberal Education requirement chart for course equivalents at Keyano College.

Open Options
An open option is any University of Lethbridge transferable course. Students must have the prerequisite(s) for these courses. Refer to the Alberta Transfer Guide or consult with a Student Advisor for details.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

<table>
<thead>
<tr>
<th>University of Lethbridge - General Liberal Education Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>12* List I (Fine Arts and Humanities)</td>
</tr>
<tr>
<td>ART</td>
</tr>
<tr>
<td>CREE</td>
</tr>
<tr>
<td>ENGL</td>
</tr>
<tr>
<td>HIST</td>
</tr>
<tr>
<td>PHIL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12* List II (Social Sciences)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON</td>
</tr>
<tr>
<td>POLSC</td>
</tr>
<tr>
<td>SOCY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12* List III (Sciences)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL</td>
</tr>
<tr>
<td>COMSC</td>
</tr>
<tr>
<td>MATH</td>
</tr>
<tr>
<td>PSYCH 104</td>
</tr>
</tbody>
</table>
BACHELOR OF ARTS

UNIVERSITY OF LETHBRIDGE MAJORS
Offered at Keyano College

The following program descriptions lists suggest Year 1 patterns only. For second year course patterns, consult with a Student Advisor.

If a student is interested in a major not listed here, contact a Student Advisor, as it may be possible to arrange a program of study.

Agricultural Studies
• 6* Junior English
• ECON 101/102 (6*)
• BIOL 108 (3*)
• STAT 151 (3*)
• POLSC 103 or SOCY 100 (3*)
• 9* General Liberal Education requirements/options.

Canadian Studies
• 6* Junior English
• HIST 260/261 (6*)
• POLSC 221 (3*)
• FREN 111/112 (6*)
• 9* General Liberal Education requirements/options.

Economics
• 6* Junior English
• ECON 101/102 (6*)
• MATH 1113 (3*)
• STAT 151 (3*)
• 12* General Liberal Education requirements/options.

English
• 6* Junior English
• 24* General Liberal Education requirements/options.

History
• 6* Junior English
• HIST 111/112 (6*)
• 18* General Liberal Education requirements/options.

Native American Studies
• CREE 100 (6*)
• NATST 110 (3*)
• 21* General Liberal Education requirements/options.

Transfer credit will be allowed ONLY if the student does not also present the corresponding 30-level high school (or equivalent) Cree course at the University of Lethbridge.

Philosophy
• 6* Junior English
• PHIL 101/102 (6*)
• 18* General Liberal Education requirements/options.

Political Science
• 6* Junior English
• POLSC 101(3*)
• POLSC 220 (6*)
• 15* General Liberal Education requirements/options.

Psychology
• 6* Junior English
• PSYCH 104/105 (6*)
• 18* General Liberal Education requirements/options.

Sociology
• 6* Junior English
• SOCY 100 (3*)
• SOCY Elective (3*)
• 18* General Liberal Education requirements/options.

Urban and Regional Studies
• 6* Junior English
• SOCY 100 (3*)
• ECON 101 (3*)
• HIST 111 (3*)
• POLSC 221 (3*)
• STAT 151 (3*)
• 9* General Liberal Education requirements/options.

General Major in the Humanities and General Major in the Social Sciences.

Contact a Student Advisor for details and program planning.
Students can complete their first year (30 credits) of the Bachelor of Commerce Degree at Keyano College. The Bachelor of Commerce program will provide students with background skills and knowledge in the various specialized areas of business, as well as in the humanities and social sciences.

There are a large variety of majors or concentrations within the University of Alberta’s BCom, the University of Calgary’s BComm, and the University of Lethbridge’s BMgt programs. Please consult the respective university’s calendar or a Student Advisor for details.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

**Admission Requirements**

Minimum average of 60% and no mark below 50% in:

- English 30-1 or English 030
- Math 30-1
- Subject from Group A or C (Social Studies 30 recommended)
- Subject from Group A or C
- Subject from Group A, B or C (Mathematics 31 recommended).

See General Admission Requirements on page 91.

**Mature Student**

Must be 21 years of age (at time of registration), and have a minimum average of 60% with no mark below 50% in:

- English 30-1 or English 030
- Math 30-1
- Biology 30, Chemistry 30 or Physics 30 recommended.

Admission to this program at most universities is competitive due to enrollment quotas. Successful transfer is based on proper course selection, credit hours completed, grade point average (GPA), and other requirements. Contact a Student Advisor for further information and program planning.

**UNIVERSITY OF ALBERTA**

Bachelor of Commerce

Admission to the Faculty of Business, Bachelor of Commerce Program at the University of Alberta occurs at the second year level with a minimum of 24 transferable credits. Students are admitted to the Faculty of Arts or Science for their pre-professional year of study.

**Suggested Year 1 pattern follows.**

- 6* Junior English
- ECON 101/102 (6*)
- MATH 1113 (3*)
- STAT 151 (3*)
- 12* General Liberal Education requirements/courses.

It is also recommended that students consult with a Student Advisor as this program may vary slightly depending on the major chosen.

Refer to the University of Alberta Bachelor of Arts section for course selections available at Keyano College for social science, science and humanities course options on page 112.

**UNIVERSITY OF CALGARY**

Bachelor of Commerce

Admission to the Faculty of Management, Bachelor of Commerce Program at the University of Calgary for transfer student occurs at the end of the second year. Keyano students may apply for admission into the second year of the pre-commerce program after a full year of study.

**Suggested Year 1 pattern follows.**

- Junior English (6*)
- ECON 101/102 (6*)
- MATH 1113 (3*)
- BUS 260 (3*)
- Social Science elective (3*)
- Science elective (3*)
- Non-Management Option (6*)

Note: Students are required to take MSGT 291 in their second year pre-management program at the University of Calgary.

Refer to the University of Calgary Bachelor of Arts section for course selections available at Keyano College for social science, science and humanities course options on page 96.

**UNIVERSITY OF LETHBRIDGE**

Bachelor of Management

The Faculty of Management at the University of Lethbridge offers a four-year program leading to the Bachelor of Management degree.

The first year (30 credits) is spent in preparatory study in the Faculty of Arts and Science while the final three years are devoted to professional study in Management.

**Suggested Year 1 pattern follows.**

- 6* Junior English
- ECON 101/102 (6*)
- STAT 151 (3*)
- MATH 1113 (3*)
- 12* General Liberal Education requirements/courses.

It is also recommended that students consult with a Student Advisor as this program may vary slightly depending on the major chosen.

Refer to the University of Lethbridge Bachelor of Arts Section for course selections available at Keyano College for social science, science and humanities course options on page 97.
**BACHELOR OF EDUCATION**

Students can complete from one to four years of the Bachelor of Education (BEd) degree at Keyano College. Having completed two years of studies at Keyano, students can transfer to the University of Alberta, University of Lethbridge, or other universities to complete the degree. Alternatively, students may remain at Keyano to complete year three and four of the Bachelor of Education Elementary degree in collaboration with the University of Alberta.

**Students must apply directly to University of Alberta for admission to 3rd year or if applying for an after degree.**

Graduates of the four-year Bachelor of Education program (University of Alberta) and the five-year combined degree program (University of Lethbridge) are eligible to apply for Teacher Certification in the Province of Alberta and most other provinces.

Transfer institutions accept a limited number of students to the Bachelor of Education program. Successful transfer is based on proper course selection, credit hours completed, grade point average (GPA), and other requirements. These requirements vary depending on which university, route, and major/minor chosen. Some routes and majors are more competitive than others and may require a higher grade point average for transfer.

A number of universities and university colleges offer the after-degree BEd. The after-degree BEd allows students to complete the education degree in two years following a first three-year or four-year degree in an Arts, Science, Commerce, or General Studies. Please contact a Student Advisor for more information regarding this option.

**Admission Requirements**

Minimum average of 60% with no mark below 50% in:
- English 30-1 or English 030
- Three subjects from Groups A or C
- Subject from Group A, B or C

Completion of Math 30-1 or Math 30-2 is recommended.

See General Admission Requirements on page 91.

**Mature Student**

Must be 21 years of age (at time of registration), and have a minimum average of 60% with no mark below 50% in:
- English 30-1 or English 030
- Subject from Group A or C

Completion of Math 30-1 or Math 30-2 is recommended.

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**UNIVERSITY OF ALBERTA**

**Bachelor of Education**

**Elementary Route:**

All students in the Elementary Route are enrolled in a Generalist program that prepares prospective teachers in the required elementary school subjects. The degree consists of 120 credits overall, of which 60 are normally taken in a pre-professional year. Program requirement details are below. Students planning to enter the elementary route are strongly encouraged to take the non-education elements in the pre-professional year.

**Program Requirements**

- 9* Education Core:
  - EDU 100
  - EDU 210
  - EDU 211

- 39* Non-Education elements to be chosen from the subjects listed in the Program Elements chart.

- 3* Aboriginal and Indigenous Histories and Culture NATST 110

- 9* Non-Education Options
  Select any University of Alberta transferable courses outside the Faculty of Education. Students must meet prerequisite(s) for these courses.

**Program Elements**

<table>
<thead>
<tr>
<th>Element I: Language/Literature</th>
<th>Junior English (6*)</th>
<th>Senior English (3*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element II: Mathematics</td>
<td>MATH 160/260 STAT</td>
<td></td>
</tr>
<tr>
<td>Element III: Social Science</td>
<td>ECON HIST PHIL POLSC SOCY</td>
<td></td>
</tr>
<tr>
<td>Element IV: Natural Science</td>
<td>BIOL CHEM EAS PHYS</td>
<td></td>
</tr>
<tr>
<td>Element V: Fine Arts</td>
<td>ART ARTH DANCE DRAMA</td>
<td></td>
</tr>
<tr>
<td>Element VI: Physical Education</td>
<td>PESS 293</td>
<td></td>
</tr>
<tr>
<td>Element VII: Health Education</td>
<td>HE ED 110 SOCY 271</td>
<td></td>
</tr>
</tbody>
</table>
BACHELOR OF EDUCATION

Year I Suggested pattern:
• Core: EDU 100 (3*)
• Element I: (6*)
• Element II: (3*)
• Element III: (3*)
• Element III: (3*) - SOCY100
• Element IV: (6*)
• Option: (6*)

Recommended Options:
• HIST 260/261
• NATST 111
• PSYCH 104/105

Year II Suggested pattern:
• Core: EDU 210/211 (6*)
• NATST 110 (3*)
• Element I: Senior (3*)
• Element II: (3*)
• Element III: (3*)
• Element IV: (3*)
• Element V: (3*)
• Element VI: (3*) - SOCY271
• Option: (3*)

See a Student Advisor for assistance.

Secondary Route
All students in the Secondary route must choose a Major teaching subject (36*) and a minor teaching subject (18*) which prepares them for teaching in specific subjects of secondary school instruction.

Majors include:
• Art
• Biological Sciences
• Career and Technology Studies: Business and Technology
• Career and Technology Studies: Human Ecology
• Career and Technology Studies: Resources
• Career and Technology Studies: Technology Education
• Chemistry
• Drama
• English Language Arts
• General Sciences
• Mathematics
• Music
• Physical Education
• Physical Sciences
• Physics
• Second Language: Cree
• Second Language: French
• Second Language: Other
• Social Studies

Contact a Student Advisor for assistance in program planning.

Program Requirements:
• 9* Education Core:
  EDU 100 (3*)
  EDU 210 (3*)
  EDU 211 (3*)
• 3* Aboriginal and Indigenous Histories and Culture
  NATST 110
• 39* Non-Education elements to be chosen from the subjects listed in the Program Elements chart.
• 9* Non-Education Options
  Select any University of Alberta transferable courses outside the Faculty of Education. Students must meet prerequisite(s) for these courses.

Year I Suggested pattern:
• Core: EDU 100 (3*)
• Core: EDU 210 (3*)
• Element I: (6*)
• Element II: (3*)
• Element III: (3*)
• Element IV: (3*)
• Element V: (3*)
• Element VI: (3*)
• Element VII: (3*) - SOCY271
• Option: (6*)

Recommended Options:
• HIST 260/261
• NATST 111
• PSYCH 104/105

Year II Suggested pattern:
• Core: EDU 211 (3*)
• Element I: Senior (3*)
• Element II: (3*)
• Element III: (3*)
• Element IV: (3*)
• Element V: (3*)
• Element VI: (3*)
• Element VII: (3*)
• Option: (6*)

For a second year program plan, see a Student Advisor for assistance.
Combined Degrees

Five-year Combined Degree:
Keyano College offers at least the first year of studies towards the following University of Alberta combined education degrees.
- BA (Native Studies)/BEd (choice of majors include: Cree and Native Studies)
- BSc/BEd (choice of majors include: Biological Sciences, Mathematical Sciences, and Physical Sciences)
- BMus/BEd
- BSc (Human Ecology)/BEd
- BPE/BEd

Students interested in one of the above University of Alberta combined degrees are encouraged to consult with a Student Advisor at Keyano College for program planning.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

BACHELOR OF EDUCATION IN ELEMENTARY EDUCATION

Collaborative Degree with the University of Alberta

Students are now able to finish third and fourth year of their Bachelor of Education through the University of Alberta at Keyano College.

Students will have two routes of entry:
1. Normal Entry – Year one to four is completed at Keyano
2. After Degree – Year three to four is completed at Keyano. Students must have 9* in three elements, 6* in English, and 3* in computing within the past five years. If not, EDU 210 is recommended.

UNIVERSITY OF LETHBRIDGE

Five-Year Combined Bachelor of Education Degree

Because of the variety of different combinations for this degree program, it is recommended that students refer to the University of Lethbridge Calendar, and consult with a Student Advisor at Keyano College.

Students completing a combined degree through the University of Lethbridge take two majors, one major for each degree.

BA/BEd Degree

The following combinations list the major for the BA followed by the appropriate Education Degree Major:
- Anthropology/Social Studies Education
- Art/Art Education
- Canadian Studies/Social Studies Education
- Dramatic Arts/Drama Education
- Economics/Social Studies Education
- English/English Language Arts Education
- French (or Spanish, or German)/Modern Language Education
- Geography/Social Studies Education
- History/Social Studies Education
- Kinesiology/Physical Education
- Music/Music Education
- Native American Studies/Native Education
- Political Science/Social Studies Education
- Sociology/Social Studies Education
- Urban & Regional Studies/Social Studies Education
- General Humanities/English Language Arts Education
- General Social Science/Native Education
- General Social Science/Physical Education
- General Social Science/Social Studies Education

BMgt/BEd Degree
- General Management/Career & Tech Studies

BSc/BEd Degree
- Biological Sciences/Science Education
- Chemistry/Science Education
- Geography/Science Education
- Mathematics/Mathematics Education
- Physics/Science Education
- General Science/Math Education
- General Science/Science Education

Year 1 Suggested pattern:
- EDU 100 (3*)
- 24* combination of courses applicable to the major and General Liberal Education Courses. Refer to the University of Lethbridge Bachelor of Arts section for the selection list of General Liberal Education courses available at Keyano College (page 97).

BMus/BEd or BFA/BEd

Students who completed the Diploma in Music or the Diploma in Visual Art and Design from the Visual & Performing Arts Department at Keyano College are eligible to apply to the University of Lethbridge Post-Diploma BMus/BEd or the Post-Diploma BFA/BEd combined degrees.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.
Students can take a variety of Art and Drama courses at Keyano College. Keyano offers the following areas of study: Art and Design and Drama. Students enrolling in a Keyano College Fine Arts course may be able to transfer them to the University of Alberta, University of Calgary, University of Lethbridge or ACAD.

Please note that credit will be granted on a course-by-course basis. Not all fine arts courses in Keyano College certificate and diploma programs transfer to all universities. Please consult the Alberta Transfer Guide (transferalberta.ca) or a Student Advisor for more information.

For most Fine Arts programs, an audition, interview, or portfolio is required. Please refer to the appropriate calendar or contact a Student Advisor if the chosen major is not listed or for more information.

UNIVERSITY OF ALBERTA

Note: the University of Alberta requires transfer applicants to its Fine Arts program to present English 030 or English 30-1 or the equivalent.

Bachelor of Fine Arts (Drama) or Bachelor of Arts (Drama)
A full year of 30* of general University Studies is required to gain admission to the BFA (Drama) program at the University of Alberta. Keyano College offers this general studies year including courses in Humanities, Social Sciences, and Fine Arts. A maximum of 12* in Drama is permitted. Specializations include Acting, Design, and Technical Theatre.

UNIVERSITY OF CALGARY

Bachelor of Fine Arts (Art or Developmental Art) and Bachelor of Arts (Art History)
Students completing Visual Art courses receive credit towards the University of Calgary BFA in Art or Developmental Art or BA in Art History. Please consult the University of Calgary calendar or a Student Advisor for assistance in program planning.

Bachelor of Fine Arts (Drama or Drama Education)
Students completing Drama courses receive credit towards the University of Calgary BFA in Drama or Drama Education. Please consult the University of Calgary calendar or a Student Advisor for assistance in program planning.

ALBERTA COLLEGE OF ART + DESIGN (ACAD)
Students completing Visual Art courses will be given credit at Alberta College Art and Design. Please see a Student Advisor for details.
Keyano College’s Bachelor of Physical Education transfer program has been developed in close cooperation with the University of Alberta. The University approves courses first before they can be offered; content and credit weights are the same as the University.

While the majority of university transfer programs at Keyano College are modeled on the University of Alberta programs, students can successfully apply to transfer to the University of Lethbridge or the University of Calgary, as well as other degree-granting institutions elsewhere in Canada as long as they meet the entrance requirements.

Completion of Bachelor of Physical Education program makes you eligible for careers as educators, or as administrators in fitness centers, leisure centers, senior citizen/retirement complexes, colleges and universities, the private and business sector and provincial, national and international sport associations and events. You will also be eligible for careers in athletic therapy, personal fitness training, recreational therapy, fitness consulting and coaching.

You may also choose to do Physical Education as a major or minor within a Bachelor of Education program. For details on Bachelor of Education refer to that section of this calendar and consult with an advisor.

**Admission Requirements**
- English 30-1 or English 030 (60%)
- Subject from Group A or C (Biology 30 is highly recommended)
- Subject from Group A or C
- Subject from Group C (Mathematics 30-1 or 30-2 is recommended)
- Subject from Group B, C, or Physical Education 30 (5 credit), Exercise Science 35, Sports Medicine 35, Sport Performance 35.

**Mature Students**
Can apply but they require the following courses:
- English 30-1 (minimum grade of 60%)
- Subject from Group A or C (Biology 30 highly recommended)

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1: Term I (September - December) 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEDS 100</td>
<td>Human Anatomy</td>
<td>3</td>
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<tr>
<td>PEDS 101</td>
<td>Essentials of Human Physiology</td>
<td>3</td>
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<tr>
<td>PERLS 105</td>
<td>Introduction to Sport Administration</td>
<td>3</td>
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<tr>
<td>PSYCH 104</td>
<td>Basic Psychological Processes</td>
<td>3</td>
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<tr>
<td>Jr. ENGLISH</td>
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<tr>
<td>Year 1: Term II (January – April) 15</td>
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<tr>
<td>PEDS 103</td>
<td>Integrative Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PERLS 104</td>
<td>Introduction to Sociocultural Aspects of Leisure and Sport</td>
<td>3</td>
</tr>
<tr>
<td>PAC</td>
<td>Physical Activity Class</td>
<td>3</td>
</tr>
<tr>
<td>STAT 151</td>
<td>Introduction to Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Jr. ENGLISH</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Year 2: Term I (September - December) 15</td>
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<td></td>
</tr>
<tr>
<td>HE ED 220</td>
<td>Introduction to the Biological Aspects Of Fitness and Health</td>
<td>3</td>
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<tr>
<td>NUTR 100</td>
<td>Nutrition and Wellbeing</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 200</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 207</td>
<td>Physical Growth and Psychomotor Development</td>
<td>3</td>
</tr>
<tr>
<td>PERLS 204</td>
<td>Canadian History of Leisure, Sport &amp; Health</td>
<td>3</td>
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<tr>
<td>Year 2: Term II (January – April) 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 200</td>
<td>The Spectrum of Dance in Society</td>
<td>3</td>
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<tr>
<td>PEDS 206</td>
<td>Biomechanics</td>
<td>3</td>
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<tr>
<td>PEDS 209</td>
<td>Research Methods in Kinesiology</td>
<td>3</td>
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<tr>
<td>PEDS 240</td>
<td>Introduction to Sport Injury Management</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 311</td>
<td>Assessment of Fitness and Health</td>
<td>3</td>
</tr>
</tbody>
</table>
BACHELOR OF PHYSICAL EDUCATION (KINESIOLOGY)

BSc in Kinesiology Degree Program Admission Requirements
Minimum average of 60% with no mark below 50% in:
- English 30-1 (60%)
- Chemistry 30
- Math 30-1
- Physics 30
- Biology 30 (recommended) or PE 30

Program of Study - Kinesiology

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong>: Term I (September - December)</td>
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</tr>
<tr>
<td>CHEM 101</td>
<td>Introductory University Chemistry I</td>
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<tr>
<td>Jr. ENGLISH</td>
<td>Elementary Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 100</td>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 101</td>
<td>Essentials of Human Physiology</td>
<td>3</td>
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<tr>
<td>PERLS 105</td>
<td>Introduction to Sport Administration</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 1</strong>: Term II (January – April)</td>
<td>15</td>
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</tr>
<tr>
<td>Jr. ENGLISH</td>
<td>Integrative Human Physiology</td>
<td>3</td>
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<tr>
<td>MATH 1113</td>
<td>Elementary Calculus I</td>
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<tr>
<td>PEDS 103</td>
<td>Integrative Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PERLS 104</td>
<td>Introduction to Sociocultural Aspects of Leisure and Sport</td>
<td>3</td>
</tr>
<tr>
<td>STAT 151</td>
<td>Introduction to Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong>: Term I (September - December)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>HE ED 220</td>
<td>Introduction to the Biological Aspects of Fitness and Health</td>
<td>3</td>
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<tr>
<td>NUTR 100</td>
<td>Nutrition and Wellbeing</td>
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</tr>
<tr>
<td>PEDS 200</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PERLS 204</td>
<td>Canadian History of Leisure, Sport &amp; Health</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 124</td>
<td>Introduction to Motion</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong>: Term II (January – April)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CHEM 261</td>
<td>Organic Chemistry</td>
<td>3</td>
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<tr>
<td>PEDS 209</td>
<td>Research Methods in Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 240</td>
<td>Introduction to Sport Injury Management</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 303</td>
<td>Psychology of Sport &amp; Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>PEDS 311</td>
<td>Assessment of Fitness and Health</td>
<td>3</td>
</tr>
</tbody>
</table>
The objective of these programs is to provide access to the first year of study towards "General" or "Honours & Specialization" programs which can be transferred to a degree-granting institution.

Keyano College's Bachelor of Science programs have been developed in close cooperation with the University of Alberta. The University approves courses first before they can be offered; content and credit weights are the same as the University.

While the majority of university transfer programs at Keyano College are modeled on the University of Alberta programs, students can successfully apply to transfer to the University of Lethbridge or the University of Calgary, as well as other degree-granting institutions elsewhere in Canada as long as they meet the entrance requirements.

**General Science Program Admission Requirements**

An average of 60% in:
- English 30-1 or English 030
- Math 30-1
- Two of Biology 30, Chemistry 30, Physics 30, Mathematics 31.
- Subject from Group A or B or C.

See General Admission Requirements on page 91.

**Mature Student**

Must be 21 years of age (at time of registration), must have a minimum of English 30-1 and Math 30-1 and two of Biology 30, Chemistry 30, Physics 30 or Mathematics 31 with an overall average of 60%.

**Note A:** The above requirements are for General Science. Majors or Specializations may have specific requirements. Please refer to the chosen Major or Specialization for specific requirements.

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### Arts Options

<table>
<thead>
<tr>
<th>ART</th>
<th>ARTH</th>
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<tr>
<td>CREE</td>
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<tr>
<td>ENGL</td>
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<tr>
<td>FREN</td>
<td>HIST</td>
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<tr>
<td>NATST</td>
<td>PHIL</td>
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<tr>
<td>POLSC</td>
<td>PSYC1</td>
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</table>

### Science Options

<table>
<thead>
<tr>
<th>BIOL</th>
<th>CHEM</th>
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<tbody>
<tr>
<td>COMSC</td>
<td>EAS</td>
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<tr>
<td>MATH</td>
<td>PHYS</td>
</tr>
<tr>
<td>PSYC1</td>
<td>STAT</td>
</tr>
</tbody>
</table>

For specific transferable arts and science options (depending on which university students wish to transfer) refer to the Alberta Transfer Guide or consult with a Student Advisor.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

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### UNIVERSITY OF ALBERTA

**General Major**

Each student in General Science at the University of Alberta must complete a Major and Minor subject or Area of Concentration. When selecting courses, students should consider co-requisites and prerequisites required.

**Subjects of Concentration include:**
- Biology
- Chemistry
- Mathematics
- Physics
- Science Psychology
- Statistics

**Areas of Concentration include:**
- Biological Science
- Chemistry
- Earth and Atmospheric Sciences
- Environmental and Conservation Sciences
- Forestry
- Mathematics
- Mathematical Sciences
- Physics
- Physical Sciences
- Science Psychology
- Statistics

**Suggested pattern:**
- 6* Junior English
- 6* COMSC, MATH, STAT
- 6* CHEM, PHYS
- 6* BIOL, EAS, PSYC 104
- 6* Arts or Science Electives (students interested in a Business minor should take ECON 101/102 (6*)
UNIVERSITY PROGRAMS

BACHELOR OF SCIENCE

FACULTY OF SCIENCE
Honours and Specialization Programs

Students planning an Honours or Specialization program should consult with a Student Advisor for assistance in choosing the appropriate courses for their program of choice. Details of Honours and Specialization science programs can be found in the University of Alberta Calendar.

A student considering an Honours program should register for a full 30 credits in a Specialization, maintain a high GPA (at least 3.0), and apply for admission to the Honours program upon transfer to the university.

Admission Requirements and Suggested Courses for Specializations

Students are required to present the following requirements listed below each specialization with a minimum average of 60%.

Biochemistry
• English 30-1 or English 030
• Math 30-1
• Chemistry 30
• Physics 30
• Biology 30

Suggested pattern:
• CHEM 101/102 (6*)
• CHEM 261 (3*)
• PHYS 124 (3)
• MATH 1113/1115 or STAT 151 (6*)
• BIOL 107/108 (6*)
• 6* Junior English

Biological Sciences
• English 30-1 or English 030
• Math 30-1
• Chemistry 30
• Biology 30
• Subject from Groups A, B or C (Physics 30 recommended)

Areas of Concentration include:
• Animal Biology
• Bioinformatics
• Cell Biotechnology
• Ecology
• Evolutionary Biology
• Microbiology
• Molecular Genetics
• Physiology and Developmental Biology
• Plant Biology

Biological Sciences Common first year
• 6* Arts option (English recommended)
• BIOL 107/108 (6*)
• CHEM 101/261 (6*)
• MATH 1113 or MATH 1120 (3*)
• STAT 151 (3*)
• 6* Science options

Note A: Cell Biotechnology, Microbiology, Molecular Genetics – Students must also take CHEM 102.

Note B: Bioinformatics – Students are required to take BIOL 107, 108; CHEM 101, CHEM 102, CHEM 261; COMSC 174 and 175; 6* of Arts option (English recommended); 3* of Science option.

Cell Biology
• English 30-1 or English 030
• Math 30-1
• Chemistry 30
• Biology 30
• Subject from Groups A, B or C (Physics 30 recommended)

Suggested pattern:
• 6* Arts option (English recommended)
• CHEM 101/102 (6*)
• CHEM 261 (3*)
• BIOL 107/108 (6*)
• MATH 1113/1115 (6*)
• STAT 151 (3*)

Chemistry
• English 30-1 or English 030
• Math 30-1
• Chemistry 30
• Physics 30
• Subject from Group A, B or C (Mathematics 31 recommended)

See General Admission Requirements on page 91.

Suggested pattern:
• 6* Junior English
• CHEM 101/102 (6*)
• CHEM 261 (3*)
• MATH 1113/1115 (6*)
• PHYS 144/146 (6*)
• 3* Science option
Pre-Computing Science
- English 30-1 or English 030
- Math 30-1
- Two of BIOL 30, CHEM 30, MATH 31, PHYS 30
- Subject from Group A, B, or C

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- COMSC 174/175 (6*)
- MATH 1113/1115 (6*)
- MATH 1120 (3*)
- 3* approved option
- 6* of science options (NOT including Math, Statistics or Computing Science)

The University of Alberta recommends that students with no previous computing experience should enroll in COMSC 101 before COMSC 174.

Earth and Atmospheric Sciences
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Subject from A, B, or C
- Physics 30

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- EAS 100 (3*)
- COMSC 174 (3*)
- MATH 1113/1115/1120 (9*)
- PHYS 144/146 (6*)
- STAT 151 (3*)

Environmental Earth Science
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Subject from Group A, B or C

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- EAS 100/105 (6*)
- CHEM 101/102 (6*)
- PHYS 124/126 (6*)
- MATH 1113/1115 (6*)

Geology
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- One of Biology 30, Math 31, Physics 30
- Subject from Group A, B or C

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- EAS 100/105 (6*)
- CHEM 101/102 (6*)
- PHYS 124/126 (6*)
- MATH 1113/1115 (6*)

Environmental Physical Sciences
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Physics 30

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- EAS 100/105 (6*)
- MATH 1113/1115 (6*)
- PHYS 124/126 or 144/146 (6*)
- CHEM 101/102 (6*)

Immunology and Infection
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Subject from Group A, B or C (Physics 30 recommended)

Suggested pattern:
- 6* of Arts options
- CHEM 101/102 (6*)
- CHEM 261 (3*)
- BIOL 107/108 (6*)
- MATH 1113 (3*)
- STAT 151 (3*)
- 3* of Science options
BACHELOR OF SCIENCE

Neuroscience
Honours Route Only
• English 30-1 or English 030
• Math 30-1
• Chemistry 30
• Physics 30
• Biology 30

Suggested pattern:
• 6* Junior English
• CHEM 101/261 (6*)
• BIOL 107/108 (6*)
• PHYS 124/126 (6*)
• MATH 1113 (3*)
• MATH 1115 or STAT 151 (3*)

Pharmacology
• English 30-1 or English 030
• Math 30-1
• Chemistry 30
• Biology 30
• Physics 30

Suggested pattern:
• 6* Junior English
• BIOL 107/108 (6*)
• CHEM 101/102 (6*)
• CHEM 164/263 (6*)
• BIOCH 200 (3*)
• STAT 151 (3*)

Physiology
• English 30-1 or English 030
• Math 30-1
• Biology 30
• One of Math 31 (recommended), Chemistry 30 or
• Physics 30
• Subject from Group A, B or C

Suggested pattern:
• 6* Junior English
• BIOL 107/108 (6*)
• CHEM 101/102 (6*)
• CHEM 164/263 (6*)
• 6* of approved Arts or Science options

Psychology
• English 30-1 or English 030
• Math 30-1
• Biology 30
• Subject from Group A, B or C

Suggested pattern:
• 6* Junior English
• BIOL 107/108 (6*)
• PSYCH 104/105 (6*)
• 6* COMSC, MATH, STAT
• 6* CHEM or PHYS

FACULTY OF AGRICULTURE, FORESTRY & HOME ECONOMICS

Admission Requirements
Students are required to present the following requirements listed below each degree with a minimum average of 60%:

Agriculture/Food Business Management
• English 30-1 or English 030
• Chemistry 30
• Math 30-1
• Biology 30
• Subject from Group A, B or C

Majors available in:
• Agricultural and Resource Economics
• Animal Science
• Crop Science
• Range and Pasture Management
• Sustainable Agricultural Systems

See General Admission Requirements on page 91.
BACHELOR OF SCIENCE

UNIVERSITY PROGRAMS

BACHELOR OF SCIENCE

Suggested pattern:
- 6* Junior English
- CHEM 101 (3*)
- CHEM 261 or 102 (3*)
- ECON 101/102 (6*)
- BIOL 107/108 (6*)
- MATH 1113 (3*)
- STAT 151 (3*)

Environmental and Conservation Sciences
- English 30-1 or English 030
- Chemistry 30
- Math 30-1
- Biology 30
- Subject from Group A, B or C

See General Admission Requirements on page 91.

Note: Non-Matriculated adults must be 21 years of age (at time of registration), must have a minimum of Chemistry 30, Biology 30 and Math 30-1 with an overall average of 60%. (Physics 30 recommended).

Majors available in:
- Conservation Biology
- Land Reclamation

Major in Conservation Biology

Suggested pattern Year 1:
- 6* Junior English
- MATH 1113 (3*)
- STAT 151 (3*)
- BIOL 108 (3*)
- ECON 101/102 (6*)
- CHEM 101/261 (6*)
- OPTION (3*)

Suggested pattern Year 2:
- ENCS 201 (3*)
- ENCS 260 (3*)
- MATH 1120 (3*)
- BOTA 205 (3*)
- REN R 120 (3*)
- REN R 250 (3*)
- SOILS 210 (3*)
- BIOL 208 (3*)
- BUS 273 (3*)
- Elective (3*)

Major in Land Reclamation

Suggested pattern Year 1:
- 6* Junior English
- MATH 1113 (3*)
- STAT 151 (3*)
- BIOL 108 (3*)
- REN R 110 (3*)
- ECON 101/102 (6*)
- CHEM 101/261 (6*)

Suggested pattern Year 2:
- ENCS 201 (3*)
- ENCS 260 (3*)
- MATH 1120 (3*)
- BOTA 205 (3*)
- REN R 120 (3*)
- REN R 250 (3*)
- SOILS 210 (3*)
- BIOL 208 (3*)
- BUS 273 (3*)
- Elective (3*)

Forestry

- English 30-1 or English 030
- Chemistry 30
- Math 30-1
- Biology 30
- Subject from Group A, B or C

See General Admission Requirements on page 91.

Suggested pattern Year 1:
- 6* Junior English
- ECON 101/102 (6*)
- CHEM 101 (3*)
- MATH 1113 (3*)
- ENCS 201 (3*)
- REN R 110 (3*)
- REN R 120 (3*)
- POLSC 221 (3*)
**BACHELOR OF SCIENCE**

**Human Ecology**
- English 30-1 or English 030
- Chemistry 30 or Biology 30
- Math 30-1
- Subject from Group A or C
- Subject from Group A, B or C

See General Admission Requirements on page 91.

**Note A:** It is recommended that applicants to the Textiles and Clothing Major present Clothing & Textiles 30. Students, who do not present Clothing & Textiles 30, will be expected to demonstrate certain competencies before entering TCC 155 at the University of Alberta. For further information, contact the Department at the University of Alberta.

**Note B:** Applicants whose area of interest includes courses in nutrition, food science, or advanced textiles are advised to present Chemistry 30 for admission.

**Note C:** Mature Students must be 21 years of age (at time of registration), must have a minimum of English 030 or English 30-1, Math 30-1, Chemistry 30 or Biology 30 with an average of 60%.

Majors available in:
- Family Ecology
- Textiles and Clothing

**Major in Family Ecology**
Suggested pattern:
- 6* Junior English
- ECON 101/102 (6*)
- STAT 151 or SOCY 210 (3*)
- 6* chosen from BIOL 107, 108, CHEM 101, 102, 261
- 6* chosen from ARTH 101, 102; ART 232, 233; PSYCH 104, 105; SOCY 100, 102; PHIL 101, 102. (SOCY recommended)
- SOCY 271 (3*)

**Major in Textiles and Clothing**
Suggested pattern:
- 6* Junior English
- ECON 101/102 (6*)
- CHEM 101/261 (6*)
- STAT 151 (3*)
- 6* Social Science/Humanities Core (Arts, Business, Education, Native Studies)
- 3* Electives

**Nutrition and Food Sciences**
- English 30-1 or English 030
- Biology 30
- Chemistry 30
- Math 30-1
- Subject from Group A, B or C

See General Admission Requirements on page 91.

**Note A:** Physics 30 is strongly recommended for the Food Science & Technology major.

**Note B:** Mature Students must be 21 years of age (at time of registration), must have a minimum of Chemistry 30, Biology 30, and Math 30-1 (and Physics 30 is recommended for Food Science & Technology majors), with an average of 60%.

Majors available in:
- Food Science & Technology
- Nutrition
- Nutrition and Food

**Major in Food Science and Technology**
Suggested pattern:
- 6* Junior English
- CHEM 101/102 (6*)
- CHEM 261 (3*)
- MATH 1113, or STAT 151 (3*)
- BIOL 107 (3*)
- ECON 101/102 (6*)

**Major in Nutrition (includes dietetic path) Major in Nutrition and Food**
Suggested pattern:
- 6* Junior English
- CHEM 101/102 (6*)
- CHEM 261 (3*)
- STAT 151 (3*)
- BIOL 107 (3*)
- ECON 101/102 (6*)
- 3* Elective

Students who wish to transfer to the Nutrition Major must have completed a minimum of 30 credits, of which 24 are transferable. Students must present BIOL, ENGL, NUTR and all four Chemistry courses and must be eligible to take BIOCH 203 in their second year; an overall GPA of 3.0 is required. Check the University of Alberta calendar for specific grades in Chemistry courses needed for BIOCH 203.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.
BACHELOR OF SCIENCE

UNIVERSITY OF CALGARY
Bachelor of Science Programs

Admission Requirements
Students are required to present the following requirements listed below each major field.

Students are encouraged to consult with a Student Advisor for more information on admission requirements.

General Major (Natural Sciences)
The General Natural Sciences major at the University of Calgary requires students to select two concentrations from different science departments. Please consult the University of Calgary calendar or a Student Advisor for concentration options.

- English 30-1 or English 030
- Math 30-1
- Two subjects from Group C
- Subject from Groups A, B, C or D

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- 6* MATH, STAT
- 6* Science Concentration I
- 6* Science Concentration II
- 6* Arts and Science Options

Biological Sciences
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Subject from Group A, B, C or D

See General Admission Requirements on page 91.

Degrees offered in Biological Science are:
- Biochemistry
- Biological sciences
- Botany
- Cellular, Molecular & Microbial Biology
- Ecology
- Zoology

Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/102 (6*)
- MATH 1113 and 1115 or 1120 (6*)
- PHYS 124/126 (6*)

Note: BIOL 107 & 108; CHEM 101 & 102 must be completed as "sets" to ensure appropriate transfer. They do not transfer separately as required courses.

Chemistry and Applied Chemistry
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Subject from Group C
- Subject from Group A, B, C or D

See General Admission Requirements on page 91.

Suggested pattern:
- 6* Junior English
- CHEM 101/102 (6*)
- PHYS 124/126 (6*)
- MATH 1113/1115 (6*)
- 6* Arts and Science Options

Environmental Science
The BSc in Environmental Science at the University of Calgary is administered by the Faculty of Social Science and the Faculty of Science and, as such, there are a variety of options and concentrations to choose from. Please refer to the University of Calgary calendar or consult with a Student Advisor regarding course selection.

Mathematics & Statistics
- English 30-1 or English 030
- Math 30-1
- Two subjects from Group A or C
- Subject from Group A, B, C or D

See General Admission Requirements on page 91.

Degrees offered in Mathematics & Statistics include:
- Math
- Statistics
- Actuarial Science
- General Mathematics

Suggested pattern
- 6* Junior English
- MATH 1113/1115 (6*)
- MATH 1120 (3*)
- COMSC 174 (3*)
- 6* Humanities or Social Sciences
- 6* Options
UNIVERSITY OF LETHBRIDGE
Students who intend to transfer to the University of Lethbridge should note that, while a student may be admissible to the Faculty of Arts & Science, students may be required to have other 30 level high school courses to meet prerequisites for specific courses required for their program of study. It is recommended that students consult with a Student Advisor to ensure all the requirements have been met to successfully transfer and complete the degree of choice.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

General Admission Requirements
Specific requirements will vary depending on BSc Major.
- English 30-1 or English 030
- Three Academic 30-level subjects
- Subject from Group A, B, C or D

See General Admission Requirements on page 91.

Keyano College General Liberal Education Requirement Course Selection List
Refer to the University of Lethbridge Bachelor of Arts section for the selection list of General Liberal Education Courses available to Keyano College (page 97).

Bachelor of Science Majors
General Major
The Bachelor of Science degree with a General Major in the Sciences at the University of Lethbridge requires students to choose three disciplinary streams from the following list:
- Archaeology
- Biological Sciences
- Chemistry
- Computer Science
- Geography
- Kinesiology
- Mathematics
- Physics
- Psychology

Students interested in this Degree program are encouraged to contact a Student Advisor at Keyano College for available combinations and program planning.

Agricultural Biotechnology
Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/261 (6*)
- ECON 101 (3*)
- STAT 151 (3*)
- OPTION (3*)

Agricultural Studies
Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/261 (6*)
- ECON 101 (3*)
- STAT 151 (3*)
- MATH 1113 or COMSC 174 (3*)
- 3* General Liberal Education courses

Biochemistry
Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/102 (6*)
- MATH 1113/1115 (6*)
- 6* General Liberal Education courses

Biological Sciences
Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101 (3*)
- CHEM 102 or 261 (3*)
- PHYS 124 (3*)
- STAT 151 (3*)
- 6* General Liberal Education Courses

Chemistry
Suggested pattern:
- 6* Junior English
- CHEM 101/102 (6*)
- MATH 1113/1115 (6*)
- STAT 151 (3*)
- 9* General Liberal Education courses

Computer Science
Suggested pattern:
- 6* Junior English
- COMSC 174/175 (6*)
- MATH 1120 (3*)
- STAT 151 (3*)
- 12* General Liberal Education courses

Environmental Science
Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/261 (6*)
- STAT 151 (3*)
- 9* General Liberal Education courses

Exercise Science
Suggested pattern:
- 6* Junior English
- BIOL 107 (3*)
- CHEM 101/261 (6*)
- MATH 1113 (3*)
- PSYCH 104 (3*)
- 9* General Liberal Education courses
BACHELOR OF SCIENCE

Mathematics
Suggested pattern:
- 6* Junior English
- MATH 1120 (3*)
- STAT 151 (3*)
- MATH 1113/1115 (6*)
- COMSC 174/175 (6*)
- 6* General Liberal Education courses

Neuroscience
Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 164/263 (6*)
- CHEM 101 (3*)
- PSYCH 104 (3*)
- STAT 151 (3*)
- 3* General Liberal Education course

Physics
Suggested pattern:
- 6* Junior English
- PHYS 124 (3*)
- MATH 1113/1115 (6*)
- BIOL 107 or CHEM 101 (3*)
- 12* General Liberal Education courses

Psychology
Suggested pattern:
- 6* Junior English
- PSYCH 104/105 (6*)
- 18* General Liberal Education Requirements

Two-Year Transfer in Biological Sciences
Keyano College has a block transfer agreement with the University of Alberta, the University of Calgary, and the University of Lethbridge that enables students to complete year two of a Biological Science degree.

Year 2 Biological Sciences
Suggested pattern:
- BIOL 201 (3*)
- BIOL 207 (3*)
- BIOL 208 (3*)
- BIOCH 200 (3*)
- BOT 205 (3*)
- MICRB 265 (3*)
- ZOOL 250 (3*)
- CHEM 261 (3*)
- CHEM 263 (3*)
- Elective (3*)

Because of the variety of options, students are encouraged to contact a Student Advisor for details and program planning.
BACHELOR OF SCIENCE IN ENGINEERING

UNIVERSITY OF ALBERTA

Faculty of Engineering
Students can complete one year of the University of Alberta program at Keyano College. Students interested in transferring to the University of Calgary or another university should consult with the Chair or a Student Advisor.

Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

Admission Requirements
The Bachelor of Science in Engineering program at Keyano College with transfer to the University of Alberta is intended for students who have recently completed their high school diploma. Applications of students who have previously completed some post-secondary courses will be reviewed on a case by-case basis to ensure they qualify for admission into year two of the University of Alberta’s Engineering program. Transfer arrangements to an engineering program at other institutions are the responsibility of the student. If you are uncertain about your qualifications please contact the Office of the Registrar.

A minimum overall average of at least 70% (60% in English required) in:
• English 30-1 or English 030
• Math 30-1
• Mathematics 31
• Chemistry 30
• Physics 30

Selection Procedures of Engineering Students:
Admission into the Engineering program is competitive. Admission will be based on academic achievement. Applications will be accepted from October 1 to June 15 for entry into the program. Applications received after the deadline will be considered if capacity permits.

Conditional offers of acceptance into the first year of Engineering will be granted to applicants who present a GPA of at least 80% or greater based on the three first semester completed Grade 12 core subjects upon receipt of transcripts and second semester course enrollment. An official transcript confirming passing grades and presenting the competitive GPA in all required core courses must be provided before final acceptance will be granted.

Applicants who do not meet the 80% GPA requirement but who have achieved a minimum average of 70% in the subjects listed above, along with applicants who apply later than the June 15 deadline for application, will be placed in a pool for further screening based on academic achievement and availability of space.

On receiving notice of acceptance, a student will be given three weeks to register in the program; failure to register in this time period may result in the offered acceptance being withdrawn. After withdrawal of acceptance, those students may reapply and will go into a pool for further screening.

Acceptance into the program will be offered to the highest ranked students from the pool of qualified applicants. Students must meet all admission requirements prior to the first day of classes.

A full course load is required for all first year transfer students applying to the University of Alberta.

Successful transfer is based on proper course selection, credit hours completed, grade point average (GPA), and other requirements. The grade point average (GPA) required varies for each area of specialization chosen to apply for. Some areas of specialization are more competitive that others and may require a higher grade point average for transfer.

The faculty of Engineering at the University of Alberta offers undergraduate programs leading to BSc degrees in:
• Chemical Engineering
• Civil Engineering
• Computer Engineering
• Electrical Engineering
• Engineering Physics
• Materials Engineering
• Mechanical Engineering
• Mining Engineering
• Petroleum Engineering

All engineering students (regardless of whether they attend Keyano College or the University of Alberta) follow a common curriculum in their first year.

Core Program Pattern:
• PHYS 1130
• ENPHY 131
• CHEM 103/105
• MATH 100/101
• ENGG 102
• ENCMP 100
• ENGG 130
• MATH 102
• 3 * Junior English or Complementary Studies Elective

The Complementary Studies Elective should be chosen from the following:
• Anthropology
• Art History
• Economics
• English
• History
• Philosophy
• Political Science
• Psychology
• Sociology

Note: Engineering 210 transfers as a required course for Mechanical and Civil Engineering at the University of Alberta. It is a useful technical elective for Materials Engineering, Mining Engineering and Petroleum Engineering.
BACHELOR OF SOCIAL WORK

UNIVERSITY OF CALGARY

Bachelor of Social Work
Admission to the Bachelor of Social Work occurs at the third year level. Students are admitted to the Social Work diploma program or University Studies Pre-Social Work for their first two years at Keyano College.

Admission Requirements
- An average of 60% in:
  - English 30-1 or provincial equivalent
  - 4 subjects from groups A, B or C (only 1 subject from group B may be presented for admission)

See General Admission Requirements on page 91.

Mature Student
Must be 21 years of age at the time of registration and have a minimum average of 60% in:
- English 30-1 or provincial equivalent

Suggested pattern:
Year I
- 6* of Junior English
- POLSC 101 (3*)
- HIST 261 (3*)
- PSYCH 104, 105 (6*)
- SOCY 100, 102 (6*)
- 6* First-year electives

Year II
- 30* of University transfer courses including SOWK 201 (3*) if not completed in 1st year

Bachelor of Social Work – 3rd year entry
University of Calgary
The University of Calgary offers onsite and distance BSW programs from Calgary, Edmonton, Lethbridge and various communities in Alberta via the Learning Circle Program.

Further information is available on the Faculty of Social Work’s website at www.ucalgary.ca/fswcentralandnorth or by contacting the student advisor at fswcnar@ucalgary.ca or call toll free 1-888-492-2083.

After completion of the Social Work Diploma program (or 60* from another University) students must apply directly to University of Calgary and University of Calgary Faculty of Social Work for admission to Bachelor of Social Work. The application deadline is April 1st. The University of Calgary does not accept late applications. For further details on application procedures and required documents please visit www.ucalgary.ca and www.ucalgary.ca/fswcentralandnorth.

University of Calgary’s Admission Requirements for 3rd year entry to Bachelor of Social Work

Students have 3 routes of entry:
1. University Transfer – Having a minimum of two years of University Transfer courses (60*) including SOWK 201 (3*) or equivalent
2. After Degree – Having completed a four-year degree from an approved University
3. Social Work Diploma – After completing a two-year Alberta Social Work Diploma. Along with the diploma, applicants require a minimum of eight general arts/science University courses (24*).

In addition to the above requirements, all applicants require English 30-1 or provincial equivalent. A minimum GPA of 2.3 (C+) over the last 10 courses taken is required.

Note: The Bachelor of Social Work Program is offered by the University of Calgary, and these entrance requirements are based upon the University of Calgary calendar. For further information please visit www.ucalgary.ca/admissions and www.ucalgary.ca/fswcentralandnorth
UNIVERSITY STUDIES PRE-PROFESSIONAL TRANSFER

Pre-professional programs are designed to meet the admission requirements of professional schools, such as medicine, dentistry, veterinary medicine, pharmacy, etc.

These programs are very competitive, so students should plan their program, allowing them the option of completing an undergraduate degree if admission into the professional program is denied or delayed.

Transfer depends on proper course selection, credit hours completed, grade point average (GPA), and other requirements. The minimum stated GPA is often not enough because of the competition to enter a program.

Pre-Professional Programs
The following pre-professional programs are available at Keyano College:

- Chiropractic
- Dental Hygiene
- Dentistry
- Journalism
- Law
- Medicine
- Medical Lab Science
- Optometry
- Pharmacy
- Rehabilitation Medicine
- Veterinary

Students can complete one to two years of study as indicated in the following program descriptions. Since the calendar is prepared well in advance of the start of the academic year, there may be subsequent changes in course offerings. Consult with a Student Advisor.

PRE-CHIROPRACTIC
Canadian Memorial Chiropractic College

The Pre-Chiropractic program is the first three years of a Bachelor of Science program, tailored to meet the admission requirements of the professional school(s). Students can take one year of studies at Keyano College then transfer to a university to complete the remaining pre-professional program requirements while completing a BSc degree.

The only Canadian School that offers a chiropractic program is the Canadian Memorial Chiropractic College in Toronto.

Students are not guaranteed admission to the Chiropractic College as it is a competitive program. Students are encouraged to fulfill all the Pre-Professional Chiropractic program requirements, but also design their program so that a Bachelor of Science Degree can be completed.

Admission Requirements
Also see specific admission requirements for Bachelor of Science Specialization Programs.

- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Subject from Group A, B or C (Physics 30 is recommended as it is required for MOST chiropractic colleges)

See General Admission Requirements on page 91.

Required Pre-Professional courses:
As there are no specific requirements other than three full years of 90* of coursework, students are encouraged to enroll in courses that fulfill requirements towards an undergraduate degree.

PRE-DENTAL HYGIENE DIPLOMA
University of Alberta

Admission Requirements

- English 30-1 or English 030
- Math 30-1
- Biology 30
- Chemistry 30
- Subject from Group A or C

Suggested pattern:

- 6* Junior English
- BIOL 107 or 108 (3*)
- CHEM 101/261 (6*)
- STAT 151 (3*)
- SOCY 100 (3*)
- PSYCH 104 (3*)
- 6* Options (any faculty)

PRE-DENTISTRY
University of Alberta

The Dentistry Program is offered in the Faculty of Medicine and Dentistry at the University of Alberta. Students are required to present a minimum of two years of full-time pre-professional university coursework and maintain a minimum grade point average (GPA) of 3.5 on a 4-point scale; students with a GPA below 3.0 will not be considered for admission to the Faculty.

Admission to the Dentistry program is highly competitive and enrollment is limited. For this reason, students are advised to design their program to lead to a Bachelor of Science degree.

The pre-dentistry program offered at Keyano College allows students to complete either one year or the full two year preparatory course work as outlined below.
Admission Requirements

- English 30-1 or English 030
- Math 30-1
- Biology 30
- Chemistry 30
- Physics 30

Due to the high GPA requirements at the transfer institution, it is recommended that a minimum average of 80% in these subjects be presented.

Required Pre-Professional courses (Years I and II):

- 6* Organic Chemistry
- 6* General Chemistry
- 6* Physics
- 6* Biology
- 6* English
- 3* Statistics
- 3* Biochemistry

Required pattern:

Year I

- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/102/261 (9*)
- PHYS 124/126 (6*)
- STAT 151 (3*)

Year II

- 6* Arts Electives
- BIOCH 200 (3*)
- BIOL 210/207 (6*)
- CHEM 263 (3*)
- MATH 1113/1115 (6*)
- PSYCH 104/105 (6*)

PRE-JOURNALISM

University of Regina, School of Journalism

The only Journalism degree available in Western Canada is through the University of Regina.

Admission to the School of Journalism and Communications is highly competitive. Students are required to present 60 hours of university coursework with an academic average of at least 70%. Keyano College offers the first year (30*) Pre-Journalism program.

For students interested in remaining for their second year of studies, please contact the Chair of the department.

PRE-LAW

University of Alberta and University of Calgary

To be considered for the LLB program at the University of Alberta or the University of Calgary, students must have completed a minimum of two years of university course work towards a degree. Most students that are accepted into a law program have completed a full degree and students should plan on completing a first degree.

Although any degree is acceptable for entry into the Law program (BA, BSc, BCom, etc.), the Bachelor of Arts program may prepare students more fully for the challenges of the LLB program. Students may consider any major in the BA program with Philosophy, Psychology, and Political Science being most popular for Law applicants.

Please note that the Law School Admission Test (LSAT) is also required for admission to the University of Alberta and University of Calgary Law programs. More information can be found at www.lawualberta.ca or at www.law.ucalgary.ca.

Admission Requirements

Refer to the appropriate Bachelor degree program of this calendar for specific program requirements.
**UNIVERSITY STUDIES PRE-PROFESSIONAL TRANSFER**

**PRE-MEDICINE**  
University of Alberta and University of Calgary

To be considered for the MD program at the University of Alberta or the University of Calgary, a candidate must normally be in the final year of a degree program, or have completed a degree program. Students with a GPA below 3.3 (Alberta residents) or 3.5 (non-Alberta residents) will not be considered for admission to the MD program. In special circumstances, students presenting a minimum of two years of full-time pre-professional university course work and who maintained a minimum grade point average (GPA) of 3.7 on a 4-point scale will be considered for admission. For other universities, a completed degree is the usual requirement.

Admission to the MD program is highly competitive and enrollment is limited. For this reason, students are advised to design their program to lead to a Bachelor of Science degree.

The pre-medicine program offered at Keyano College allows students to complete either one year or the full two year preparatory course work as outlined below.

**Admission Requirements**
- English 30-1 or English 030
- Math 30-1
- Biology 30
- Chemistry 30
- Physics 30
- Math 31 recommended

Due to the high GPA requirements at the transfer institution, it is recommended that a minimum average of 80% in these subjects be presented.

**Required Pre-Professional courses (Years I and II):**
- 6* Organic Chemistry
- 6* General Chemistry
- 6* Physics
- 6* Biology
- 6* English
- 3* Statistics
- 3* Biochemistry (6* preferred)

**Required pattern:**
**Year I**
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/102/261 (9*)
- PHYS 124/126 (6*)
- STAT 151 (3*)

**Year II**
- 6* Arts Electives
- BIOCH 200 (3*)
- BIOL 210/207 (6*)
- CHEM 263 (3*)
- MATH 1113/1115 (6*)
- PSYCH 104/105 (6*)

**PRE-MEDICAL LAB SCIENCE**  
University of Alberta

The University of Alberta offers a four-year Bachelor of Science degree program in Medical Laboratory Science. The entrance requirement is one pre-professional year of study. This pre-professional year can be completed at Keyano College. Candidates then apply to the University of Alberta to complete the second, third and fourth year under the Faculty of Medicine.

Enrollment is limited and preference will be given to those students who have completed the required 30 credits in one academic year.

**Admission Requirements**
- English 30-1 or English 030
- Math 30-1
- Biology 30
- Chemistry 30 with 90%
- Subject from Group A, B or C

**Suggested pattern:**
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 164/263 (6*)
- CHEM 101/102 (6*)
- STAT 151 (3*)
- 3* Options (any faculty)

**PRE-OPTOMETRY**  
University of Waterloo

The Optometry program is completed at the University of Waterloo in Waterloo, Ontario. The minimum requirement for admission is two years (60*) Pre-Optometry. Keyano College offers one year of Pre-Optometry coursework. A student may take their second year Pre-Optometry by going to the University of Alberta for the second year. Waterloo’s School of Optometry is a competitive quota program, with seven students from Alberta accepted each year.

**Admission Requirements**
- English 30-1 or English 030
- Biology 30
- Chemistry 30
- Math 30-1
- Physics 30
UNIVERSITY STUDIES PRE-PROFESSIONAL TRANSFER

Required Pre-Professional courses (Years I and II):
• 6* General Biology
• 6* General Chemistry
• 6* Physics
• 6* Calculus
• 6* English
• 6* Physiology
• 3* Introductory Psychology
• 3* Genetics
• 3* Introductory Ethics
• 3* Organic Chemistry
• 3* Microbiology
• 3* Biochemistry
• 3* Statistics

Suggested pattern:
• 6* Junior English
• BIOL 107/108 (6*)
• CHEM 101/261 (6*)
• PHYS 124/126 (6*)
• MATH 1113 (3*)
• STAT 151 (3*)

PRE-PHARMACY
University of Alberta

The University of Alberta offers a Bachelor of Science in Pharmacy degree program. The minimum requirement for admission is one year (30*) pre-professional university coursework. Keyano College offers this pre-professional year. The Pharmacy program at the University of Alberta is competitive and has an enrollment limit of 110 students annually. Preference is given to candidates who have undertaken a program of study that has included a year of full time study (30*).

Admission Requirements
• English 30-1 or English 030
• Math 30-1
• Two of Biology 30, Chemistry 30, Physics 30, Math 31
• Subject from Group A, B or C

See General Admission Requirements on page 91.

Suggested pattern:
• 6* Junior English
• BIOCH 200 (3*)
• CHEM 101/102 (6*)
• CHEM 164/263 (6*)
• BIOL 107 (3*)
• MATH 1113 (3*)
• STAT 151 (3*)

PRE-REHABILITATION MEDICINE
University of Alberta Occupational Therapy

The requirement for admission to Occupational Therapy at the University of Alberta is successful completion of two pre-professional years (60*) of university coursework. Keyano College offers one year of pre-professional coursework.

The Occupational Therapy degree program at the University of Alberta is competitive and has an enrollment limit of 74 students annually. Preference is normally given to those students who have completed 30* over two consecutive terms.

Admission Requirements
• English 30-1 or English 030
• Math 30-1
• Two of Biology 30, Chemistry 30, Physics 30, Math 31
• Subject from Group A, B or C

See General Admission Requirements on page 91.

Required Pre-Professional courses (Years I and II):
• 3* Psychology
• 3* Sociology
• 3* Statistics
• 3* Interpersonal Communications
• 3* Introductory Gross Human Anatomy
• 6* Human Physiology
PRE-VETERINARY
University of Saskatchewan

The Veterinary Medicine Program is offered through the Western College of Veterinary Medicine at the University of Saskatchewan. To be considered for admission, students must complete a minimum of two years (60*) of pre-professional university level coursework and have a high grade point average (GPA). The Veterinary Medicine Program at the University of Saskatchewan is competitive and has an enrollment quota. They accept a maximum of 20 Alberta students per year.

Keyano offers one year of Pre-Veterinary coursework. A student may take their second year pre-veterinary coursework by going to the University of Alberta for the second year.

Students should meet all of the Pre-Veterinary requirements, but also design their program so that a Bachelor of Science degree a can be completed.

**Admission Requirements**
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Physics 30

**Required Pre-Professional courses (Years I and II):**
- 6* English or Literature
- 6* General Chemistry
- 6* Biochemistry
- 6* Physics
- 6* Math or Statistics
- 6* Biology
- 3* Organic Chemistry
- 3* Genetics
- 3* Introductory Microbiology
- 15* Options

Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 261 (3*)
- CHEM 101/102 (6*)
- MATH 1113 or STAT 151 (3*)
- PHYS 124 (3*) or ECON 101/102 (6*)

PRE-VETERINARY
University of Calgary

The University of Calgary offers a Veterinary Medicine program, which began in the fall of 2008. To be considered for admission, students must complete a minimum of two academic years of full time study (minimum four courses per semester for a minimum 16 half course equivalents (HCE) in university coursework. Students will be assessed on their best two full academic years (as defined in the previous sentence), performance in their most recent year of undergraduate study, and completion of required courses. Applicants will be considered if they have attained an average of a 3.00 (B, or its equivalent) over the best two full academic years and in their final year of undergraduate study. Applicants must also attain an average of 3.00 (B, or its equivalent) or above on the following prerequisite courses. In each of the required courses the applicant must have received a grade of 2.30 (C+ or its equivalent) or higher to count the course as meeting the program admission requirements.

To be considered for admission to the Veterinary program, students must present the equivalent of the appropriate University of Calgary courses in Biology (6*), General Chemistry (6*), Organic Chemistry (3*), English (3*), Statistics (3*), Biochemistry (3*), Genetics (3*), and Ecology (3*). The suggested pattern given below lists Keyano College courses which will meet some of these requirements upon transfer to the University of Calgary at the end of the first year.

**Admission Requirements**
- English 30-1 or English 030
- Math 30-1
- Chemistry 30
- Biology 30
- Physics 30

Suggested pattern:
- 6* Junior English
- BIOL 107/108 (6*)
- CHEM 101/102 (6*)
- CHEM 164 or CHEM 261 (3*)
- BIOCH 200 (3*)
- STAT 151 (3*)
- MATH 1113 (3*)
Keyano College offers the following apprenticeship programs:

- Carpentry
- Crane & Hoist Equipment Operator-Mobile Crane
- Electrical
- Heavy Equipment Technician
- Millwright
- Steamfitter/Pipefitter
- Welder

Compulsory Certification Trades are those with compulsory certification. To work in a compulsory trade you must have a trade certificate or be a registered apprentice. The compulsory trades have been indicated by a (C) on the Guide to Trades Apprenticeship (page 123).

Optional Certification Trades are those trades in which you may work without a journeyperson certificate or as a registered apprentice if you have two to five years of acceptable work experience and are paid a journeyperson’s wage. Anyone working in the trade and not meeting these requirements must become an indentured apprentice. The apprentices then receive their identification cards and become eligible to benefit from the program.

Accelerated patterns of apprenticeship may be arranged for applicants who have completed training programs that correspond to the in-school portion of the apprenticeship curriculum. Work experience may also be recognized upon an employer’s recommendation.

Wages
Apprentice wages are based on:
- experience in the trade
- the prevailing journeyperson rate of pay

Required minimum rates of pay are stated in the trade regulations. They range from 45% to 90% of the prevailing journeyperson wage, depending upon the trade.

The Red Seal Program
Graduating apprentices in certain trades may qualify for the interprovincial Red Seal, which signifies acceptable trade qualifications in all Canadian provinces and territories.

The present basis for awarding this significant credential is two-fold:
- successful completion of apprenticeship
- pass mark on an interprovincial examination

The trades presently included in the Red Seal program are: Automotive Service Technician, Plumber, Electrician, Carpenter, Sheet Metal Mechanic, Heavy Equipment Technician, Auto Body Mechanic, Refrigeration Mechanic, Radio Technician, Bricklayer, Millwright, Machinist, Steamfitter, Painter and Decorator, Instrument Mechanic, Cook and Welder. Plans are underway to extend the Red Seal program to other trades.

Awards to Top-Ranking Apprentices through the very generous efforts of several organizations and firms, a number of awards are presented each year to apprentices on the basis of their performance in school programs and Apprenticeship and Trades Certification examinations. Every apprentice is eligible. Please see page 41 for more information on awards.

Admission Requirements
Enterprise and Advanced Education Apprenticeship and Industry Training (AIT) sets the admission requirements for each trade. Please refer to AIT’s website for specific Trade Requirements.

tradescrets.alberta.ca

Application Process
Application for apprenticeship is made to Enterprise and Advanced Education Apprenticeship and Industry Training, on prescribed forms available from all regional offices. The application must be signed by the apprentice and the employer. When the application is approved, a contract is drawn up, signed and registered with Alberta Learning Apprenticeship and Industry Training.

English Language Proficiency
Not applicable as all applicants must be approved by the Alberta Apprenticeship Board before registration.

Registering for Apprenticeship
Full tuition fees as per the fee schedule are due and payable upon registering for technical training at the Keyano College Office of the Registrar.

Apprenticeship Refund Policy
- A $100 admission deposit is non-refundable and non-transferable.
- If an apprentice withdraws between the first day of classes and the end of the third week of classes, a 50% refund of tuition and associated costs will be granted.
- If an apprentice withdraws after the end of the third week of classes, no refund will be given.
- If the College cancels a program, a full refund will be granted.

See page 20 for full details.

Program Dates
Please contact the School of Trades & Heavy Industrial Division at (780) 791-4881 or the Office of the Registrar at (780) 792-2688 or see www.tradescrets.alberta.ca for the Apprenticeship training schedule.
APPRENTICESHIP

Guide To Trades Apprenticeship

<table>
<thead>
<tr>
<th>Trades</th>
<th>Length (Years/Period)</th>
<th>Training Weeks/Years</th>
<th>Minimum Education</th>
<th>Compulsory or Optional Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpenter</td>
<td>4</td>
<td>8-8-8-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crane &amp; Hoist Equipment Operator-Mobile Crane</td>
<td>3</td>
<td>6-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrician</td>
<td>4</td>
<td>8-8-8-12</td>
<td></td>
<td></td>
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<tr>
<td>Heavy Equipment Technician</td>
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<td>8-8-8-8</td>
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<td>O</td>
</tr>
<tr>
<td>Millwright</td>
<td>4</td>
<td>8-8-8-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steamfitter/Pipefitter</td>
<td>3</td>
<td>8-8-8</td>
<td></td>
<td>C</td>
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<tr>
<td>Welder</td>
<td>3</td>
<td>8-8-8</td>
<td></td>
<td>C</td>
</tr>
</tbody>
</table>

Note: See a consultant at Alberta Learning Apprenticeship and Industry Training for trades not listed on this page, and for updated minimum education requirements.

Training
When the formal apprenticeship is arranged, the training program becomes available. Experience is gained and trades skills developed in various phases of the trade under the guidance of qualified journeymen.

Apprentices under contract are required and privileged to attend technical training programs designed for their particular trade. These are short programs of four to twelve weeks in each year of apprenticeship. Training is also intended to instil respect for the trade by emphasizing quality of workmanship.

Attendance and Punctuality
Technical apprenticeship training is considered an extension of the workplace in terms of attendance and punctuality. It is expected that students will manage their time in accordance with the published program schedule and will attend all classes every day.

Policy
- Instructors will inform the class on intake day of the program schedule and the expectations regarding attendance and punctuality.
- Instructors must maintain accurate daily attendance records.
- Instructors will submit weekly attendance sheets to the School of Trades & Heavy Industrial office each Friday.
- If a student is absent for two days, or has accrued three lates, the instructor will complete a “special report” identifying the concern. This report will be submitted to the Program Chair and the Dean for their recommendations.
- Following three days absence or four lates, the student will be considered terminated from the program. Re-admittance to class will only be permitted upon receipt of written recommendation from the Trade Qualification Inspector, Apprenticeship and Industry Training.
- All students must report unavoidable absences from class to their instructor at the earliest opportunity. It is expected that personal appointments will be made after scheduled class hours.
- If a student is absent for 1 1/2 days, or has accrued two lates, the instructor will notify the Program Chair for appropriate follow-up action.
- Students not in the classroom when class commences will be required to obtain a late slip from an administrative assistant in the main office of their campus. The late slip must be presented to the instructor to gain admittance to the class.

Refer to AIT’s website for each specific trades requirements.
www.tradescrets.alberta.ca

Progress Reports
Examinations are conducted by the Apprenticeship and Trades Certification Branch at the completion of each program. The pass mark is 70%. Progress reports showing the results of these examinations and the College rating are then issued. Supplemental tests are available. Those who fail the examinations must repeat the entire program.

Certification
A journeyperson certificate is issued to an apprentice who:
- Has completed the term of apprenticeship (four years in most trades).
- Receives a satisfactory report from his/her employer.
- Receives a satisfactory report from the school at which the apprentice attended the technical training.
- Successfully completes the test and examinations prescribed by Alberta Learning.

Transfer
Where the terms of the contract of apprenticeship cannot be fulfilled, the director or his/her designate may, if circumstances warrant, arrange for an apprentice to be transferred to another employer.

For Further Information
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 792-2688 or 1-800-251-1408
COKER TECHNICIAN

Under review, not accepting applications for 2014-2015.

- CERTIFICATE

Clearwater Campus

The Coker Technician Program is open to local residents of the Wood Buffalo Region – proof of residency is required. No previous experience is necessary.

The Coker Technician Certificate program trains entry level candidates in the safe operation of the Coker Unit. The program consists of six weeks in-class training followed by a 216 hour unpaid work practicum. Students must complete the theory portion of the program in order to be granted the work practicum. The practicum is in the Coker Unit at Suncor and consists of three full cycles on shift (3 days, 3 nights, 6 off).

Suncor participates in student selection, work practicum mentorship and evaluation, and program assessment. The program gives Suncor access to a trained and skilled pool of qualified workers while students have the opportunity to demonstrate their employability skills. At the end of the program students who successfully complete the in-class theory program and the work experience will be interviewed by Suncor for job placements.

Admission Requirements
- Applicants require a High School Diploma or G.E.D.
- Local resident of the Wood Buffalo region – proof of residency required

English Language Proficiency
- TOEFL: iBT – minimum score of 71 with no score below 17
- IELTS – minimum score of 5.5
- CAEL – minimum score of 60
- MELAB – minimum score of 60
- CLBA – minimum score of 7

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Application Process
Submit the following documents to the Office of the Registrar:
- Official transcript showing academic qualifications
- A completed Keyano College Application for Admission and Application Fee Receipt ($50)
- Up-to-date resume
- (TOWES) Test of Workplace Essential Skills

The top applicants who meet the education requirements and the requirements of the TOWES testing will be contacted for a Behavioural Descriptive Interview (BDI) with Suncor and Keyano College representatives.

Admission Deposit
Students accepted to the Coker Technician program are subject to a $100 non-refundable, non-transferable admission deposit payable within 10 working days after the date on their acceptance letter. If the deposit is not paid as required, the offer of admission can be revoked by the College.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COKER 101</td>
<td>Delayed Coking</td>
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<tr>
<td>COKER 102</td>
<td>Process Flow</td>
<td>1</td>
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<tr>
<td>COKER 103</td>
<td>Decoking</td>
<td>1</td>
</tr>
<tr>
<td>COKER 104</td>
<td>Pumps &amp; Compressors</td>
<td>2</td>
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<tr>
<td>COKER 105</td>
<td>Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>COKER 106</td>
<td>Safety Training</td>
<td>2</td>
</tr>
<tr>
<td>COKER 107</td>
<td>Basic Computer Skills</td>
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</tr>
<tr>
<td>COKER 108</td>
<td>Work Practicum</td>
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</tr>
</tbody>
</table>

Course Descriptions
See pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Tel: (780) 791-4955
E-mail: powerprocess@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
HEAVY EQUIPMENT TECHNICIAN

Sponsored by:

- DIPLOMA

Suncor Energy Industrial Campus

FINNtech
Keyano is pleased to offer a collaborative program with Finning. This 20 month diploma program will allow students to acquire first hand theory and technical training focused on Caterpillar equipment.

Admission Requirements
- High School diploma (GED or Certificate of Achievement will not be accepted as an equivalency)
- Completion of the Candidate Profile
- Successful completion of a Differential Aptitude Test
- Interview with the program coordinator and industry representative
- Canadian Citizen or Permanent Resident
- Physical Demands testing

Student selection is competitive. Students must pass all selection criteria steps before being admitted. All candidates will be notified.

English Language Proficiency
- TOEFL: iBT – minimum score of 71 with no score below 17
- IELTS – minimum score of 5.5
- CAEL – minimum score of 60
- MELAB – minimum score of 60

Admission Process
Applicants complete the following:
- Keyano College application for admission
- Differential Aptitude Test (DAT)
- Program Candidate Profile. (Submit directly to the Office of the Registrar)
- Personal interview with representatives from Finning and Keyano College. Applicants will be contacted by the College to arrange a date and time.

Admission Deposit
Students accepted to the program are subject to a $100 non-refundable, non-transferable admission deposit payable within 10 working days after the date on their acceptance letter. If the deposit is not paid as required, the offer of admission can be revoked by the College.

Graduation Requirements
A pass mark of at least 60% in each course. Students must attain an overall average of 65% to be eligible to write AIT exams. Work terms will be graded as a Pass/Fail.

Attendance and Punctuality
Technical training is considered an extension of the workplace. Students of this program will follow industry standards established for apprenticeship technical training regarding attendance and punctuality.

Student terminated from the program for reasons of attendance and/or punctuality may be readmitted only by permission of the Dean, School of Trades & Heavy Industrial Division.

Program of study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Year 1:</td>
<td>Term I</td>
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<tr>
<td>HETD 110</td>
<td>Introduction to Heavy Equipment Service Industry</td>
<td>2.5</td>
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<tr>
<td>HETD 120</td>
<td>Truck and Trailer Suspension and Steering</td>
<td>3</td>
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<tr>
<td>HETD 130</td>
<td>Air Brakes</td>
<td>2.5</td>
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<tr>
<td>HETD 140</td>
<td>Fundamentals of Hydraulics</td>
<td>4.5</td>
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<td>HETD 150</td>
<td>Safety Training</td>
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<td>HETD 190</td>
<td>Work Placement</td>
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<tr>
<td>Year 1:</td>
<td>Term II</td>
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<tr>
<td>HETD 210</td>
<td>Engine Fundamentals</td>
<td>6.5</td>
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<tr>
<td>HETD 220</td>
<td>Engine Fuel Systems</td>
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<tr>
<td>HETD 230</td>
<td>Electrical Fundamentals</td>
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<td>HETD 290</td>
<td>Work Placement II</td>
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<td>Year 1:</td>
<td>Term III</td>
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<td>HETD 310</td>
<td>Power Train I</td>
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<tr>
<td>HETD 320</td>
<td>Electrical Systems</td>
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<td>HETD 330</td>
<td>Air Conditioning Systems</td>
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<td>HETD 390</td>
<td>Work Placement III</td>
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<td>Year 2:</td>
<td>Term I</td>
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<tr>
<td>HETD 410</td>
<td>Machine Hydraulic Systems</td>
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<tr>
<td>HETD 420</td>
<td>Power Train II</td>
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<tr>
<td>HETD 440</td>
<td>On-Highway Steering</td>
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<tr>
<td>HETD 490</td>
<td>Work Placement IV</td>
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<tr>
<td>Year 2:</td>
<td>Term II</td>
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<tr>
<td>HETD 510</td>
<td>Machine Electronics</td>
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<tr>
<td>HETD 520</td>
<td>Machine Diagnostics</td>
<td>4</td>
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<tr>
<td>HETD 530</td>
<td>Engine Diagnostics and Repair</td>
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<tr>
<td>HETD 540</td>
<td>Machine Specifics</td>
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<tr>
<td>HETD 590</td>
<td>Work Placement V</td>
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</tr>
</tbody>
</table>

Course Descriptions
See pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Tel: (780) 799-8604
Email: finntech@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
Tel: (780) 791-4801
1-800-251-1408
keyano.ca
SCHOOL OF TRADES AND HEAVY INDUSTRIAL

MECHANICAL & CONSTRUCTION TRADES PREPARATION

• CERTIFICATE

Clearwater Campus

The Mechanical and Construction Trades Preparation Program (MCTP) provides entry-level industry training and skill development for employment in apprenticeship trades. Current demand for skilled workers requires apprenticeship candidates who have demonstrated trade knowledge and related skills, employability skills, appropriate work ethics and safe work practices. The MCTP program offers 24 weeks of multiple trade preparation, skill development and employability skills training. The program enables students to choose and prepare for entry-level trades employment in industry. The final six weeks of training is an assignment by the student’s choice of trade area to a work experience placement in industry. Students are issued credentials for work experience by Apprenticeship and Industry Training and assume full apprentice workload duties under supervision of a journeyperson.

Throughout the program, safety is stressed as a personal practice and industry requirement. Related study includes introduction to Loss Control Management, Occupational Health and Safety Legislation, W.H.M.I.S., Standard First Aid, CPR, and response to emergency situations. The program is task-oriented to actual job conditions as closely as possible.

Students successfully completing the program will have demonstrated basic theory and practical trade knowledge and will have acquired selected apprenticeship-level trade skills in both construction and mechanical trade areas. Graduates receive a program certificate, transcript and for employment purposes, an industry-based job performance evaluation from their work experience placement.

Admission Requirements

• 18+ years of age
• Grade 10 Academic Proficiency
• Candidates are tested for aptitude and academic proficiency

English Language Proficiency

• TOEFL: iBT – minimum score of 71 with no score below 17
• IELTS – minimum score of 5.5
• CAEL – minimum score of 60
• MELAB – minimum score of 60
• CLBA – minimum score of 7

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Course Descriptions

See pages 134 to 211 for an alphabetical list of all course descriptions.

Admission Process

Applicants complete the following:
• Keyano College application for admission
• MCTP Applicant Profile
• Interview with program Chair

Admission Deposit

Students accepted to the MCTP program are subject to a $100 non-refundable, non-transferable admission deposit payable within 10 working days after the date on their acceptance letter. If the deposit is not paid as required, the offer of admission can be revoked by the College.

Program Dates

Fall 2014 – September 15, 2014 to March 13, 2015
Winter 2015 – February 9, 2015 to July 31, 2015

Refer to keyano.ca/Academics/Programs/Mechanical-Construction Trades Preparation for further information.

Graduation Requirements

Pass mark of 50% in each course plus an overall average of 60% required.

Attendance and Punctuality

Technical training is considered an extension of the workplace. Students of this program will follow industry standards established for apprenticeship technical training regarding attendance and punctuality. Students terminated from the program for reasons of attendance and/or punctuality may be readmitted only by permission of the Dean, School of Trades & Heavy Industrial Division.

Program of Study

<table>
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<th>Course</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>MCT 111</td>
<td>General Education</td>
<td>60</td>
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<tr>
<td>MCT 112</td>
<td>Personal Management</td>
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<td>MCT 132</td>
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<tr>
<td>MCT 138</td>
<td>Welding</td>
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<tr>
<td>MCT 139</td>
<td>Mechanics</td>
<td>60</td>
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<tr>
<td>MCT 140</td>
<td>Parts</td>
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<tr>
<td>MCT 143</td>
<td>Carpentry</td>
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<tr>
<td>Year 1: Term II</td>
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<tr>
<td>MCT 131</td>
<td>Electrical</td>
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<td>MCT 137</td>
<td>Industry Placement</td>
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<tr>
<td>MCT 141</td>
<td>Pipefitting/Plumbing</td>
<td>60</td>
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<tr>
<td>MCT 142</td>
<td>Millwright</td>
<td>60</td>
</tr>
</tbody>
</table>

For Further information

Tel: (780) 791-4951
E-mail: tradesinfo@keyano.ca

To Apply

Office of the Registrar, Keyano College
8115 Franklin Avenue; Fort McMurray, AB T9H 2H7
Tel: (780) 791-4801 • 1-800-251-1408 • keyano.ca
Sponsored by: Suncor

- CERTIFICATE

Clearwater Campus

Keyano College offers 4th class Part A and B and 3rd class Part A and B Power Engineering (Certification) online.

The program is delivered through iLearn (Moodle) which is a computer managed, self-paced course that is done at your convenience. The program provides access to a comprehensive question bank designed to highlight subjects in the Alberta Boiler’s Branch syllabi.

As students study through the Power Engineering book and workbook, they test their knowledge by completing chapter quizzes, S test and E-exams online. All e-exams are supervised exams that must be done in person at Keyano College.

The online program offers tutorial assistance by qualified instructors on an appointment basis every Tuesday and Thursday in the Bob Lamb Building.

Program Dates
Students can enroll at any time and have one year from the date signed up to complete both Part A and B theory.

FOURTH CLASS POWER ENGINEERING
This program is open to any individual interested in pursuing a career in the power engineering field. No previous experience is necessary. Upon successful completion, students are allowed to write the first half of the Alberta Boiler Safety Association (ABSA) Interprovincial Fourth Class Power Engineering examination.

Admission Requirements
It is strongly recommended that students have Math 20-1 or 20-2, Physics 20 or Science 20 and English 20.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>PELM 4100</td>
<td>Applied Science</td>
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<tr>
<td>PELM 4200</td>
<td>Plant Services</td>
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<td>PELM 4300</td>
<td>Steam Generation</td>
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</tr>
<tr>
<td>PELM 4400</td>
<td>Prime Movers and Auxiliaries</td>
<td>4</td>
</tr>
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</table>

THIRD CLASS POWER ENGINEERING
This program is open to any individual with an Alberta Fourth Class Power Engineering Certificate. Upon successful completion students are eligible to write the Alberta Boiler Safety Association Interprovincial Third Class examination.

Admission Requirements
Fourth Class Power Engineering Certificate

Program of Study

<table>
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<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PELM 3100</td>
<td>Applied Science</td>
<td>4</td>
</tr>
<tr>
<td>PELM 3200</td>
<td>Plant Services</td>
<td>4</td>
</tr>
<tr>
<td>PELM 3300</td>
<td>Steam Generation</td>
<td>4</td>
</tr>
<tr>
<td>PELM 3400</td>
<td>Prime Movers and Auxiliaries</td>
<td>4</td>
</tr>
</tbody>
</table>

Student Evaluation and Graduation Requirements
Students will be evaluated using online quizzes for each chapter/module as well as supervised tests and examinations. Students must achieve 80% or better for each on-line quiz and a minimum of 65% for supervised tests and exams. Students must attain a minimum of 65% in each course to be eligible for program certification and to write the ABSA exams.

FEES
Please see page 18 for the fee policy governing Power Engineering: CML programs. A total of two (2) three-month extensions may be obtained for a fee of $150 each.

Course Descriptions
See pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information & To Apply
Power Engineering Department
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
Tel: (780) 791-4955
Email: powerprocess@keyano.ca
keyano.ca
Keyano College’s two year Power Engineering Co-op Program addresses the critical shortage of power engineers in northern Alberta. Through a progression of classroom instruction linked directly to the workplace, students gain ‘real time’, paid work experience as they earn 4th and 3rd Class certification as power engineers.

Local and regional industry partners have supported the program since 1996. Current partners make up a Steering Committee which participates in student selection, work practicum mentorship and evaluation, and program assessment. These employers gain access to a trained and skilled pool of qualified 4th and 3rd class power engineers while students gain tremendous opportunities to showcase their technical and employability skills to potential employers. Students see the paid work practicum as a viable and affordable means to achieve long term, well paid, progressive employment.

Program Dates
The work practicum may be outside of the Wood Buffalo region. All efforts will be made to assist students to obtain a cooperative work placement. These placements are based upon student academic achievement, Alberta Boiler Safety Association industry certification and industry host requirements, policies and regulations. Keyano College cannot guarantee co-op placements.

Start date: The next First Year intakes for the two-year Co-op Program are October 27, 2014 and May 4, 2015.

Academic Qualifications
Applicants require a High School Diploma, or G.E.D. with minimum English 20/23 or English 20-1 or 20-2; Math 20-1 or 20-2, and Physics 20 or Science 20 (Alberta course only) or equivalent.

English Language Proficiency
- TOEFL: iBT – minimum score of 80 with no score below 20
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet admission requirements for their chosen program.

Application Process
The following documents must be submitted to the Office of the Registrar:
- Official transcript showing your academic requirements
- A completed Keyano College Application for Admission
- Up-to-date resume
- Differential Aptitude Test (DAT) with minimum score of 4500

The top applicants who meet the academic requirements will be contacted for a Behavioural Descriptive Interview (BDI) with industry and Keyano College representatives. Applicants who are interviewed for the Power Engineering program must be able to tell the interview panel the following:
- the job duties of a power engineer
- why they are interested in this career
- what research and preparation they have done

Driver’s License
Please note that a valid driver’s license is required for work practicum as it is a job requirement of local industry.
Admission Deposit
Students accepted to the Power Engineering program are subject to a $100 non-refundable, non-transferable admission deposit payable within 10 working days after the date on their acceptance letter. If the deposit is not paid as required, the offer of admission can be revoked by the College.

Attendance and Punctuality
Technical training is considered an extension of the workplace in terms of attendance and punctuality. Attendance is crucial to be successful in acquiring a work practicum. More than four unexcused absences disqualify students from work practicum eligibility.

ABSA Requirements
To secure the first work term the student has to pass 4A with 65% in both courses. To secure the second work term the student should have completed 4B and passed 3A 1& 2 with passing marks in the course.

Graduation Requirements
Pass mark of 65% in each course is required to be eligible for program certification and to write ABSA exams. Work terms are graded pass/fail.

Reinstatement Fee
Students who fail to qualify for a work term and are subsequently reinstated after meeting requirements are subject to a $250 administrative fee.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1: Certificate • Term 1 (16 weeks)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>PECO 4100</td>
<td>Applied Science</td>
<td>4</td>
</tr>
<tr>
<td>PECO 4200</td>
<td>Plant Services</td>
<td>4</td>
</tr>
<tr>
<td>PECO 4300</td>
<td>Steam Generation</td>
<td>4</td>
</tr>
<tr>
<td>PECO 4400</td>
<td>Prime Movers and Auxiliaries</td>
<td>4</td>
</tr>
<tr>
<td>PECO 4999</td>
<td>Attendance</td>
<td></td>
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<tr>
<td>Year 1: Term II (6 months)</td>
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<tr>
<td>PECO 4500</td>
<td>Work Experience</td>
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<tr>
<td>Year 2: Term I (16 weeks)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>PECO 3100</td>
<td>Applied Science</td>
<td>4</td>
</tr>
<tr>
<td>PECO 3200</td>
<td>Plant Services</td>
<td>4</td>
</tr>
<tr>
<td>PECO 3300</td>
<td>Steam Generation</td>
<td>4</td>
</tr>
<tr>
<td>PECO 3400</td>
<td>Prime Movers and Auxiliaries</td>
<td>4</td>
</tr>
<tr>
<td>PECO 3999</td>
<td>Attendance</td>
<td></td>
</tr>
<tr>
<td>Year 2: Term II (6 months)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>PECO 3500</td>
<td>Work Experience</td>
<td>12</td>
</tr>
</tbody>
</table>

Course Descriptions
See pages 134 to 211 for an alphabetical list of all course descriptions.

For Further Information
Tel: (780) 791-4955
E-mail: powerprocess@keyano.ca

To Apply
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
Sponsored by:

- CERTIFICATE

Clearwater Campus

The two year Process Operations Co-op program prepares students for entry-level positions in mineral and hydrocarbon processing primarily focused on the major oil sands companies. The program trains students in Power Engineering and Process Operations and has been offered at Keyano College since 2001. The program was developed as a result of identified needs from industry to have process operators with power engineering certification.

In two years, students complete 4th Class Power Engineering, Process Operations and 3rd Class Power Engineering (Part A). Through a progression of classroom instruction linked directly to the workplace, students gain ‘real time’, paid experience as they learn. Local and regional industry partners make up a Steering Committee which participates in student selection, work practicum mentorship and evaluation, and program assessment. These employers gain access to a trained and skilled pool of qualified workers while students gain tremendous opportunities to showcase their technical and employability skills to potential employers. In addition, students see the paid work practicum as a viable and affordable means to achieve long term, well paid, progressive employment.

Program Dates

The work practicum may be outside of the Wood Buffalo region. All efforts will be made to assist students to obtain a cooperative work placement. These placements are based upon student’s academic achievement, Alberta Boiler Safety Association industry certification and industry host requirements, policies and regulations. Keyano College cannot guarantee co-op placements. Students must pass 4A in order to qualify for the first 6 month work term in first year. Students must pass 4B in order to qualify for the second six month work term for the second year.

Start date: The next First Year intake for the two-year Co-op Program is April 28, 2014.

Academic Qualifications

Applicants require a High School Diploma or G.E.D. with minimum English 20/23 or English 20-1 or English 20-2; Math 20-1 or Math 20-2; and Physics 20 or Science 20 (Alberta course only), or equivalent.

English Language Proficiency

- TOEFL: iBT – minimum score of 80 with no score below 20
- IELTS – minimum score of 6.0
- CAEL – minimum score of 60
- MELAB – minimum score of 80

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

Application Process

Submit the following documents to the Office of the Registrar:

- Official transcript showing your academic qualifications
- Completed Keyano College Application for Admission
- Up-to-date resume
- Differential Aptitude Test (DAT) with minimum score of 4500

The top applicants who meet the academic qualifications will be contacted for a Behavioural Descriptive Interview (BDI) with industry and Keyano College representatives for final selection. Applicants who are interviewed for the Power Engineering program must be able to tell the interview panel the following:

- The job duties of a power engineer
- Why they are interested in this career
- What research and preparation they have done

Driver’s License

Please note that a valid driver’s license is required for work practicum as it is a job requirement of local industry.
**PROCESS OPERATIONS CO-OP**

**Admission Deposit**
Students accepted to the Process Operations program are subject to a $100 non-refundable, non-transferable admission deposit payable within 10 working days after the date on their acceptance letter. If the deposit is not paid as required, the offer of admission can be revoked by the College.

**Attendance and Punctuality**
Technical training is considered an extension of the workplace in terms of attendance and punctuality. Attendance is crucial to be successful in acquiring a work practicum. More than four unexcused absences disqualify students from work practicum eligibility.

**ABSA Requirements**
To secure the first work term the student has to pass 4A with passing marks in the course. To secure the second work term the student should have completed 4B and passed 3A 1& 2 with passing marks in the course.

**Graduation Requirements**
Pass mark of 65% in each course is required to be eligible for program certification and to write ABSA exams. Work terms are graded pass/fail.

**Reinstatement Fee**
Students who fail to qualify for a work practicum and are subsequently reinstated after meeting requirements are subject to a $250 administrative fee.

**Program of Study**

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Term I</td>
<td>(16 weeks)</td>
<td>16</td>
</tr>
<tr>
<td>PROC 101</td>
<td>Applied Science</td>
<td>4</td>
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<tr>
<td>PROC 102</td>
<td>Plant Services</td>
<td>4</td>
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<tr>
<td>PROC 210</td>
<td>Chemistry</td>
<td>1</td>
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<tr>
<td>PROC 230</td>
<td>Introductory Process Instrumentation</td>
<td>1.5</td>
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<tr>
<td>PROC 232</td>
<td>Advanced Process Instrumentation</td>
<td>2</td>
<td></td>
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<tr>
<td>PROC 235</td>
<td>Upgrading Processes</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PROC 250</td>
<td>Environmental Management and Processes</td>
<td>1.5</td>
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</tr>
<tr>
<td>Year 1: Term II</td>
<td>(6 months)</td>
<td>12</td>
<td></td>
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<tr>
<td>PROC 105</td>
<td>Work Practicum</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Year 2: Term I</td>
<td>(16 weeks)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>PROC 103</td>
<td>Steam Generation</td>
<td>4</td>
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<tr>
<td>PROC 104</td>
<td>Prime Movers and Auxiliaries</td>
<td>4</td>
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<tr>
<td>PROC 3100</td>
<td>Applied Science</td>
<td>4</td>
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<td>PROC 3200</td>
<td>Plant Services</td>
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<tr>
<td>PROC 260</td>
<td>Work Practicum</td>
<td>12</td>
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</tbody>
</table>

**Course Descriptions**
See pages 134 to 211 for an alphabetical list of all course descriptions.

**For Further Information**
Tel: (780) 791-4955
E-mail: powerprocess@keyano.ca

**To Apply**
Office of the Registrar
Keyano College
8115 Franklin Avenue
Fort McMurray, AB T9H 2H7
(780) 791-4801
1-800-251-1408
keyano.ca
Keyano College is excited to offer Pre-Employment programming which will provide an alternative entry into Apprenticeship. Students will receive four weeks of academic upgrading and employability skills followed by the first period of technical training (eight weeks) in their preferred trade.

Upon successful completion students will then have an opportunity to be placed on a six week paid work term at the end of the program.

**Admission Requirements**

**Pre-Employment Carpentry**
- 18 years of age
- High school diploma; with a minimum of English 10-2, Math 10-3, or GED
- Recommended High School courses: English 30-2, Math 30-3, either Physics 20, Chemistry 20 or Science 20 and related Career and Technology Studies courses
- or approval of Chair

**Pre-Employment Electrical**
- 18 years of age
- High school diploma; with a minimum of English 20-2, Math 20-3, and Science 10
- Recommended High School courses: English 30-2, Math 30-3, either Physics 30, Chemistry 30 or Science 30 and related Career and Technology Studies courses
- or approval of Chair

**English Language Proficiency**
- TOEFL: iBT – minimum score of 71 with no score below 17
- IELTS – minimum score of 5.5
- CAEL – minimum score of 60
- MELAB – minimum score of 60
- CLBA – minimum score of 7

See page 12 for other ways to meet the English Language Proficiency requirement.

In addition to meeting English Language Proficiency students must also present the appropriate coursework to meet the admission requirements for their chosen program.

**Application Process**
- Complete and submit a Keyano College application for Admission
- Submission of official high school transcripts showing your academic qualifications
- Pre-Employment Applicant profile
- Interview with the program chair

**Admission Deposit**
Students accepted are subject to a $100 non-refundable, non-transferable admission deposit payable within 10 working days after the date on their acceptance letter. If the deposit is not paid as required, the offer of admission can be revoked by the College.

**Graduation Requirements**
Pass mark of at least 65% in each course.

**Program Dates**
Fall 2014 - September 15, 2014 to January 16, 2015

**Attendance and Punctuality**
Technical training is considered an extension of the workplace. Students of this program will follow industry standards established for apprenticeship technical training regarding attendance and punctuality. Students terminated from the program for reasons of attendance and/or punctuality may be readmitted only by permission of the Dean, School of Trades & Heavy Industrial Division.
## PRE-EMPLOYMENT PROGRAMS

### Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>Pre-Employment Carpentry</td>
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<tr>
<td>PEMP 100</td>
<td>Employability Skills</td>
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<td>PEMP 101</td>
<td>Trades Mathematics</td>
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<tr>
<td>PEMP 102</td>
<td>Trades Science</td>
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<td>PEMP 103</td>
<td>Technical Communication</td>
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<tr>
<td>PEMP 104</td>
<td>Safety</td>
<td>1</td>
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<tr>
<td>PCARP 110</td>
<td>Building Materials</td>
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<tr>
<td>PCARP 120</td>
<td>Hand and Power Tools</td>
<td>5</td>
</tr>
<tr>
<td>PCARP 130</td>
<td>Site Preparation and Foundation</td>
<td>3</td>
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<tr>
<td>PCARP 140</td>
<td>Floor Frame</td>
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<td>PCARP 150</td>
<td>Estimating and Plans</td>
<td>4</td>
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<tr>
<td>PCARP 199</td>
<td>Work Site Placement</td>
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</tr>
</tbody>
</table>

### Course Descriptions
See pages 134 to 211 for an alphabetical list of all course descriptions.

### For Further Information
Tel: (780)791-4883  
Email: tradesinfo@keyano.ca

### To Apply
Office of the Registrar  
Keyano College  
8115 Franklin Avenue  
Fort McMurray, AB T9H 2H7  
(780) 791-4801  
1-800-251-1408  
keyano.ca
**ABEN 100**  
**Starting Your Own Business**  
3 credits, 45 hours  
An introduction to the Aboriginal Entrepreneurship program and the development of preliminary skills and knowledge including a self-assessment, research skills, sectoral studies, mentoring and an overview of Aboriginal business issues and the business plan.

**ABEN 103**  
**Communications**  
4 credits, 60 hours  
Development of effective writing and reading skills with progression to oral and written communication including listening skills, presentations, giving and receiving feedback, business writing including letters, memos and reports.  
*Prerequisite: ABEN 100 or consent of the Program Chair*

**ABEN 106**  
**Marketing for New Business Ventures**  
3 credits, 45 hours  
An introduction to marketing for new and developing businesses including market research, sectoral studies and the development of a marketing plan.  
*Prerequisite: ABEN 100 or consent of Program Chair*

**ABEN 109**  
**Personal/Management Skills**  
3 credits, 45 hours  
Development of personal and interpersonal skills including goal setting, leadership and management skills, coaching and mentoring and a personal development plan.  
*Prerequisite: ABEN 100 or consent of Program Chair*

**ABEN 112**  
**Finance for Aboriginal Business**  
3 credits, 45 hours  
Analysis of the funding challenges and opportunities for Aboriginal business. Introduction to numeracy skills applied to the topics of money management and budgeting.  
*Prerequisite: ABEN 100 or consent of the Program Chair*

**ABEN 115**  
**Small Business Accounting & Bookkeeping**  
5 credits, 75 hours  
Development of numeracy through an introduction to accounting and related standard software packages. Setup of a small business accounting system. Development of skills organizing and maintaining information and data.  
*Prerequisite: ABEN 100 or consent of the Program Chair*

**ABEN 118**  
**Business Law**  
3 credits, 45 hours  
Introduction to business law including legal forms of business, contracts and contractual obligations, liabilities, insurance and bonding and the legal issues related to Aboriginal business activity.  
*Prerequisite: ABEN 100 or consent of the Program Chair*

**ABEN 121**  
**Human Resource Issues**  
3 credits, 45 hours  
Recruiting, selecting and training staff, relationships with staff, team work, dealing with difficult people, dealing with family and band members.  
*Prerequisite: ABEN 100 or consent of the Program Chair*

**ABEN 124**  
**E-Commerce for Small Business**  
2 credits, 45 hours  
Introduction to e-commerce including websites, electronic tendering and internet research.  
*Prerequisite: ABEN 100 or consent of the Program Chair*

**ABEN 127**  
**The Business Plan**  
1 credit, 15 hours  
Finalize the business plan using standard software.  
*Prerequisite: Completion of all other courses or consent of the Program Chair*

**ABST 020**  
**Aboriginal Studies**  
5 credits, 5 hours per week, 16 weeks  
Aboriginal Studies 20 involves the study of the wealth and diverse nature of Aboriginal languages and cultures. Aboriginal Studies 20 explores concepts within the students’ own unique context. It is intended to enhance understanding of the diverse Aboriginal cultures within our region, Canada and the world. The term “Aboriginal” refers to First Nations Métis and Inuit. It includes the study of policies, legislation, conflict and cultural change.  
*Prerequisite: Social Studies 10*

**ABST 030**  
**Aboriginal Studies**  
5 credits, 5 hours per week, 16 weeks  
Students will gain a greater understanding of the current issues facing Aboriginal people worldwide. Aboriginal Studies 30 enables students to demonstrate an understanding of the issues of Aboriginal rights and self-government, Aboriginal land claims, Aboriginal peoples in Canadian society and Aboriginal world issues.  
*Prerequisite: Aboriginal Studies 20*
ACCT 311
Introductory Accounting
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to financial accounting and reporting for Canadian businesses with an emphasis on providing information relevant to external users. The course focuses on the mechanics of double-entry bookkeeping and accrual accounting to enable students to prepare financial statements in accordance with generally accepted accounting principles.
Prerequisites: ECON 101 and ECON 102

ACCT 322
Managerial Information and Control Systems
3 credits, 16 weeks, 3 hours lecture
This course examines the use of accounting information by people within organizations to plan and control operations. Various techniques for processing and interpreting information are introduced, emphasizing the development of information systems appropriate for specific decision needs. The impact of accounting information on the behaviour of various users within the organization is studied.
Prerequisite: ACCT 311

ACSKL 110
Strategic Postsecondary Academic Skills
3 credits, 15 weeks, 3 hours lecture
This course is designed to increase students' chances for success in college. Topics include: higher education terminology; learning strategies and styles; setting college and career goals; adjusting to campus diversity; time management; stress management; active listening skills; building a positive student-teacher connection; effective group work skills; note-taking; test-taking and study strategies; student rights and responsibilities; and getting the most from Web CT; file management and security, as well as basic file transfer issues.

ACSKL 120
Postsecondary Critical Writing, Reading and Research Skills
3 credits, 15 weeks, 3 hours lecture
This course is designed to increase students' chances for success in college. Topics include: the kinds of reading & writing college students’ do; levels of reading & writing; reading & writing in different subjects; organizational skills for reading & writing; reading strategies; basic college vocabulary; understanding writing assignments; essential writing forms (responses to essays); the most common ways to lose grammar & writing marks; critical research skills; bibliography dos and don’ts; avoiding plagiarism; web research skill building (evaluating sites to structured database searching); formatting issues; effective proof-reading and editing; writing in groups; student presentation survival skills.

ADD 005
Addictions: Chemical Dependency and the Adult Learner
2 credits, 16 weeks, 2 hours lecture
Students will learn what is meant by addiction. They will look at what kinds of chemicals can be addictive and how to know if you, or a person you know, are in danger of addiction. The course will cover alcohol, drugs and gambling. This is an excellent choice if a student is interested in a career in health, education, business or social work.

AFL 006
Entry Language Arts
9 credits, 16 weeks, 12 hours lecture
The writing and reading portions of this class will build students’ spoken and written vocabulary, writing in context, comprehension, analysis, grammar, creativity, and research skills. Basic Internet and word-processing training is included. A wide variety of reading materials is used to accommodate the particular needs and interests of each student.

AFL 007
Intermediate Language Arts
9 credits, 16 weeks, 12 hours lecture
This course builds on the knowledge and skills developed in the Entry level of Academic Foundations. Modules will cover writing in context (grammar and spelling), vocabulary building, critical reading and comprehension. Materials will have an adult orientation, including science and social studies topics. Students will create and maintain portfolios of their work for evaluation.

AFL 009
Advanced Language Arts
9 credits, 16 weeks, 12 hours lecture
This course builds on the knowledge and skills developed in the intermediate level of Academic Foundations and will cover advanced grammar and vocabulary building. Context-based reading is available to build critical reading and comprehension skills. Students will create and maintain portfolios of their work for evaluation.

AFM 006
Entry Math
6 credits, 16 weeks, 8 hours lecture
AFM 006 will cover all four operations (addition, subtraction, multiplication, division) on whole numbers, fractions and decimals including order of operations. An introduction to the language of algebra and the solving of one step linear equations, calculating the perimeter and area of basic polygons and the interpretation of graphed data will be explored.
AFM 007
Intermediate Math 007
6 credits, 16 weeks, 8 hours lecture
AFM 007 will apply a review of whole numbers, fractions and decimals to all operations (addition, subtraction, multiplication, division) on integers, signed fractions and signed decimals including order of operations. Students will apply their number sense to the solving of ratio, proportion and percent applications as well as the interpretation of data presented in various charts or graphs. Algebra will be explored through the solving of one step linear equations. Perimeter and area of two dimensional shapes will be explored and applied to the volume of three dimensional figures, with a focus on circles and triangles.

AFM 009
Advanced Math 009
6 credits, 16 weeks, 8 hours lecture
AFM 009 will review all four operations (addition, subtraction, multiplication, division) on rational numbers including rational and irrational square roots. Students will explore algebra including the simplifying of the exponent laws, algebraic expressions and polynomial operations. Students will also explore the solving of linear equations (two or more steps) and linear inequalities in one variable as well as the graphing of linear equations in two variables. A review of two and three dimensional measurement will be applied to volume and surface area, the Pythagorean Theorem and circle properties. Students will apply their number sense to the application of probability in our society.

ANTHR 101
Introductory Anthropology
3 credits, 16 weeks, 3 hours lecture
This course provides a general introduction to the four major subfields of Anthropology: Cultural Anthropology, Linguistic Anthropology, Archaeology and Physical Anthropology. This introduction will be through the study of central concepts and key issues such as: the appearance of culture, human evolution, social organization, cultural theory, symbolic systems, and culture change.

ANTHR 110
Gender, Age, and Culture
3 credits, 16 weeks, 3 hours lecture
This course presents an anthropological review and comparison of cultures (globally) in terms of social positions based on differences in sex and age. What does it mean to be female, male, middle-aged, or old? This introductory course examines the cultural construction of the categories of gender and age to see how these ideas vary cross-culturally and how they influence our ideas of normal behaviour and practice. Readings, films, and guest speakers will complement class lectures and presentations.

ANTHR 150
Race and Racism in the Modern World
3 credits, 16 weeks, 3 hours lecture
This course will study the challenge of racism in modern societies and the response of anthropology, including the history of how the ‘race’ concept has been used to explain human variation. Topics will include multiculturalism, ethnic (or cultural) identity, prejudice, ethnocentrism, ‘silent’ and ‘overt’ racism, eugenics, and the persistence of ethnic identity in the face of globalization. Case studies from different parts of the world (rural and urban, in times of war and of peace) will be used to define and illustrate these concepts, including current issues of interest in Canada. This course will include a combination of lectures, readings, films, and guest speakers.

ANTHR 207
Introduction to Social and Cultural Anthropology
3 credits, 16 weeks, 3 hours lecture
This course provides an overview of the aims, concepts, methods and theoretical approaches of social/cultural anthropology. Attention will be given to the main topical concerns of the discipline (including but not restricted to kinship and marriage, political and economic organization, religion and cosmology), and throughout the course the focus will be on the nature of, and explanations for, social and cultural variation around the world and over time. Prerequisite: a 100-level Anthropology course or permission of the Program Chair

ANTHR 250
North American Aboriginal Peoples
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to Aboriginal Peoples of North America using anthropological concepts such as culture areas (Northwest Coast, Desert Southwest, Plains, and Subarctic, for example). The readings include selected classic ethnographies (detailed descriptions of Native people and their cultural ways written by anthropologists who have conducted long-term fieldwork with Indigenous groups). The course also provides students with a wealth of selected films on Native culture groups which illustrate their diversity, ceremonial and traditional histories, as well as contemporary issues, concerns, and life ways. This course requires no prior knowledge of Aboriginal Peoples.
COURSE DESCRIPTIONS

ANTHR 260
Aboriginal Peoples Living in Cities
3 credits, 16 weeks, 3 hours lecture
Well over one-half of all Native people in Canada are now living in cities and towns rather than on reserves or in rural areas. In this course, we will examine the cultural dynamics of Urban Aboriginal Peoples, including: their construction of distinct Native communities within cities; their endeavours concerning formal and informal education; their efforts regarding health issues and solutions; their cultural healing and revitalization movement; the effects of gangs and poverty on certain segments of the Urban Native population; and many other important factors in the relatively recent Urban Aboriginal phenomenon. We will also briefly compare and contrast the history of Urban Native Peoples in Canada with that of the United States. Films and guest speakers will augment our mandatory readings and lectures. This course requires no prior knowledge of Aboriginal Peoples.

ANTHR 320
Anthropology of Religion
3 credits, 16 weeks, 3 hours lecture
This course is a survey of anthropological approaches to religions and related phenomena including magic, taboo, shamanism and witchcraft. There is an emphasis on the connection between religious ideas and practices and other aspects of social life in a variety of cultures. The creation and use of meaning and symbols as a way of reifying religious truth will also be addressed. The social construction of belief systems or shared ideas people learn as they grow up in a given society will be explored in the context of both Western and non-Western cultures through lectures, readings, student seminar presentations, films, and guest speakers.
Prerequisite: ANTHR 207 or permission of the Program Chair
Note: Not open to students with credit in ANTHR 420.

ANTHR 366
Theories of Culture Change
3 credits, 16 weeks, 3 hours lecture
Anthropological theories of the nature of socio-cultural systems and the processes of culture change in conjunction with examples from selected cultural case studies. Case studies will be taken from various geographical locations, a variety of human societies (both macro- and micro-cultures), and a range of historical and contemporary time frames.
Prerequisite: ANTHR 207 or permission of the Program Chair

ART 100
Introduction to Contemporary Art
3 credits, 16 weeks, 3 hours lecture
An introduction to the issues and artists that are affecting art today. Through videos, lectures, gallery visits and artist lectures this course will consider the media, issues and styles in contemporary art. Open to art and non-art majors.

ART 232
Two Dimensional Art & Design
3 credits, 16 weeks, 6 hours lecture
A studio based introduction to 2D media for art and non-art majors. Studio projects are designed to develop an understanding of the media, elements, principles and concepts of 2D art and design.

ART 233
Three Dimensional Art & Design
3 credits, 16 weeks, 6 hours lecture
A studio based introduction to 3D media for art and non-art majors. Studio projects are designed to develop an understanding of the media, elements, principles and concepts of 3D design and sculptural form.

ART 240
Introductory Drawing I
3 credits, 16 weeks, 6 hours lecture
Drawing is a broad term which encompasses many different media, modes of expression and execution. Students are introduced to a wide range of drawing activities so that they may be made aware of as many modes of expression as possible. Students work from models and still-life situations, as well as specific projects designed to highlight formal abstract qualities inherent in drawing. Emphasis is placed on the structural elements that constitute drawing.

ART 290
Two Dimensional Art & Design
3 credits, 16 weeks, 6 hours lecture
A studio based introduction to 2D media for art and non-art majors. Studio projects are designed to develop an understanding of the media, elements, principles and concepts of 2D art and design.

ART 291
Media in Art I
3 credits, 16 weeks, 6 hours lecture
The primary objective for this introductory class will be to develop an understanding of contemporary media as art forms. Students will work with two-dimensional computer graphics, photography and video. The class addresses the interdisciplinary and creative objectives of multi-media.
Prerequisite: Admission to Visual Art & Design Diploma or permission of the Program Chair

ART 292
Media in Art II
3 credits, 16 weeks, 6 hours lecture
A continuation of Art 291, this class will focus on an introduction to three-dimensional computer animation, audio systems and a continuation of photography and video. The class continues to address the interdisciplinary and creative objectives of multi-media.
Prerequisite: ART 291 or permission of the Program Chair

ART 293
Art in Media III
3 credits, 16 weeks, 6 hours lecture
The course will focus on an introduction to creating digital images for both fine art and graphic design. Students will explore both the technical aspects of digital manipulation, as well as the basic concepts and practice of communication design using Adobe software and printing with the Epson Stylus 9800 44” Inkjet Printer.
ART 312
Introductory Painting I
6 credits, 32 weeks, 6 hours lecture
This studio-based course is designed to promote the development of students' critical and visual awareness. The components of painting - the hand, eye and the mind - are dealt with throughout the course, mainly on a project-oriented basis. Through those projects, students develop skills and understanding of the visual language of painting.
Prerequisites: ART 232 and ART 233 or permission of the Program Chair

ART 313
Introductory Painting II
6 credits, 32 weeks, 6 hours lecture
This course is a continuation of Art 312. The emphasis is on both the technical and aesthetic elements in painting as well as the individual needs and aspirations of each student. Assignments will be given to enable the student to best come to terms with the language and process of painting. Experimentation with the medium will be encouraged to enable the student to realize the potential of the material they are working with.
Prerequisites: ART 232, ART 233 and ART 312 or permission of the Program Chair

ART 324
Introductory Relief Printing
3 credits, 16 weeks, 6 hours lecture
This studio course explores the basic possibilities of relief printing including woodcuts and linocuts. The objective is to become familiar with the conceptual, expressive and technical possibilities of the medium so that it may be placed in service of individual artistic investigations. Equal emphasis will be given to aesthetic and technical concerns.
Prerequisites: ART 232 and ART 233 or permission of the Program Chair

ART 325
Introductory Silkscreen
3 credits, 16 weeks, 6 hours lecture
This studio course explores the basic possibilities of silkscreen printing. The objective is to become familiar with the conceptual, expressive and technical possibilities of the medium so that it may be placed in service of individual artistic investigations. Equal emphasis will be given to aesthetic and technical concerns.
Prerequisites: ART 232 and ART 233 or permission of the Program Chair

ART 326
Introductory Intaglio
3 credits, 16 weeks, 6 hours lecture
This studio course explores the basic possibilities of intaglio including drypoint, etching, aquatint and collagraphs. The objective is to become familiar with the conceptual, expressive and technical possibilities of the medium so that it may be placed in service of individual artistic investigations. Equal emphasis will be given to aesthetic and technical concerns.
Prerequisites: ART 232 and ART 233 or permission of the Program Chair

ART 327
Introductory Lithography
3 credits, 16 weeks, 6 hours lecture
This studio course explores the basic possibilities of lithography from both stones and aluminum plates. The objective is to become familiar with the conceptual, expressive and technical possibilities of the medium so that it may be placed in service of individual artistic investigations. Equal emphasis will be given to aesthetic and technical concerns.
Prerequisites: ART 232 and ART 233 or permission of the Program Chair

ART 340
Introductory Drawing II
3 credits, 16 weeks, 6 hours lecture
Drawing is a broad term which encompasses many different media, modes of expression and execution. This course will continue the introduction that was begun in Art 240. Emphasis will be placed on further developing the students' drawing ability through the investigation of a wide selection of drawing materials and situations.
Prerequisite: ART 240 or permission of the Program Chair

ART 362
Introductory Sculpture I
6 credits, 32 weeks, 6 hours lecture
Foundation studies in sculpture. The primary objective for this class will be to develop an understanding of fashioning objects by methods of assembly, modeling, and carving.
Prerequisites: ART 232 and ART 233 or permission of the Program Chair

ART 363
Introductory Sculpture II
6 credits, 32 weeks, 6 hours lecture
Further foundation studies in sculpture. A continuation of the processes of fashioning objects will be pursued.
Prerequisite: ART 362 or permission of the Program Chair
ART 393
Media in Art III
3 credits, 16 weeks, 6 hours lecture
General principles of digital image processing. Students will explore both the technical aspects of digital manipulation, as well as the artistic and conceptual methods for building complex imagery on the computer. Emphasis on vector and raster-based software for commercial and fine art applications.
Prerequisites: ART 291 and ART 292

ART 394
Media IV: Digital Video Imaging
3 credits, 16 weeks, 6 hours lecture
General principles of the relationships between digital video and image processing. Students will explore both the technical aspects of video manipulation, as well as the artistic & conceptual methods for building complex video image and sound environments with computer software. Emphasis on Final Cut Pro software for commercial and fine art applications.
Prerequisites: ART 291 and ART 292, or permission of the Program Chair

ART 396-399
Independent Study
3 credits, 16 weeks, 2 hours lecture
This course allows students to pursue advanced projects through independent study with an advisor from the department.
Prerequisite: Completion of all courses offered within chosen specialization or permission of the Program Chair

ART 441
Drawing III
3 credits, 16 weeks, 6 hours lecture
Drawing is a broad term which encompasses many different media, modes of expression and execution. Students are introduced to a wide range of drawing activities so that they may be made aware of as many modes of expression as possible. Students focus mainly on contemporary approaches to drawing. Students will be given specific projects designed to highlight continuing themes such as abstraction, human form, portraiture as well as looking at contemporary artists that deal with drawing as an art form. Emphasis is placed on the theory that provides a framework for modern Drawing themes.
Prerequisites: ART 240 and ART 340

ART 442
Drawing IV
3 credits, 16 weeks, 6 hours lecture
Drawing is a broad term which encompasses many different media, modes of expression and execution. Students are introduced to a wide range of drawing activities so that they may be made aware of as many modes of expression as possible. Students focus mainly on contemporary approaches to drawing. Students will be given specific projects designed to highlight continuing themes such as abstraction, human form, portraiture as well as looking at contemporary artists that deal with drawing as an art form. Emphasis is placed on the theory that provides a framework for modern Drawing themes.
Prerequisites: ART 240 and ART 340

ARTH 101
Introduction to the History of Art I
3 credits, 16 weeks, 3 hours lecture
This course is a survey of art-painting, sculpture and architecture from prehistory to the end of the 14th century. The course concentrates on the art of western (European based) cultures with consideration given to the important social, historical and cultural events that impact on the development of art.

ARTH 102
Introduction to the History of Art II
3 credits, 16 weeks, 3 hours lecture
A continuation of ARTH 101, this course is a survey of art – painting, sculpture and architecture – from the 15th century to the beginnings of modern art in the mid – 19th century. The course concentrates on the art of western (European based) cultures with consideration given to the important social, historical and cultural events that impact on the development of art.

ARTH 271
Survey of Nineteenth Century Art I
3 credits, 16 weeks, 3 hours lecture
An examination of the visual arts, especially painting and sculpture, in Europe during the first half of the 19th century. As background, the course begins with the rise of Neoclassicism and the reaction against the Rococo around the time of the French Revolution and continues by tracing developments in art with the Romantic movements during the early 19th century.

ARTH 272
Survey of Nineteenth Century Art II
3 credits, 16 weeks, 3 hours lecture
A continuation of Art History 271. An examination of the visual arts, especially painting and sculpture, in Europe during the second half of the 19th century. The course traces the development and influence of art movements such as Realism, Impressionism, Post-Impressionism, and Symbolism, and emphasizes the struggle against the domination of the Academy and of academic art in the later 19th century.
**ARTH 273**  
Survey of Early Canadian Art  
3 credits, 16 weeks, 3 hours lecture  
A history of the visual arts, especially painting and sculpture, in Canada from the time of the first European explorers in the 16th century up to the early 20th century, including the work of the Group of Seven. The course emphasizes the growth of national concerns in the art of a developing country.

**ARTH 281**  
Survey of Twentieth Century Art I  
3 credits, 16 weeks, 3 hours lecture  
This course is a study of major art movements in Europe and North America up to World War II. The course includes an examination of such movements as Fauvism, Cubism, Futurism, Dada and Surrealism.

**ARTH 282**  
Survey of Twentieth Century Art II  
3 credits, 16 weeks, 3 hours lecture  
This course is a continuation of ARTH 281, and is a study of major art movements in Europe and North America since World War II. The course includes an examination of recent painting and sculpture, as well as considering less conventional art forms, such as installation, earthworks, and performance art.

**ARTH 283**  
Survey of Twentieth Century Canadian Art  
3 credits, 16 weeks, 3 hours lecture  
A continuation of Art History 273. A history of the visual arts, especially painting and sculpture, in Canada from the early 20th century to the present day. The course emphasizes the shift in Canadian art from national concerns to international modernism.

**ASTRO 120**  
The Solar System  
3 credits, 16 weeks, 3 hours lecture  
This course discusses the development of astronomy and astronomical techniques, including results obtained from the latest orbiting observatories such as the Hubble Space Telescope, Galileo Probe and Mars Global Surveyor. The origin, evolution and nature of the Earth, Moon, Sun, the other planets, and non-planetary bodies in the solar system will be discussed. One component of this course is accessible to the public through Keyano's non-credit offerings.  
Prerequisites: Math 30-1 and Physics 30, or permission of Program Chair

**ASTRO 122**  
Stars and Galaxies  
3 credits, 16 weeks, 3 hours lecture  
This course discusses the development of our understanding of the Universe, including current models of stellar evolution and cosmology. Emphasis is placed on understanding the physical processes underlying astronomical phenomena. One component of this course is accessible to the public through Keyano's non-credit offerings.  
Prerequisites: Math 30-1 and Physics 30, or permission of the Program Chair

**BIOCH 200**  
Introductory Biochemistry  
3 credits, 16 weeks, 3 hours lecture  
An introduction to the fundamental principles of biochemistry. Protein structure and function; structure of nucleotides and nucleic acids; structure and function of biological membranes; metabolism of carbohydrates, lipids, and nitrogen; the regulation and integration of cellular metabolism; and bioenergetics.  
Prerequisites: CHEM 101 and CHEM 161 or CHEM 261

**BIOL 025**  
Biology 25  
6 credits, 16 weeks, 6 hours lecture  
Topics studied include: cells, protein synthesis, DNA, genetics, principles of classification and ecology.  
Alberta Education Course Equivalency: Biology 10 and Biology 20  
Co-requisites: ENGL 013 or ENGL 010 or permission of the Program Chair

**BIOL 030**  
Biology 30  
5 credits, 16 weeks, 6 hours lecture, 2 hours lab on alternate weeks  
Topics studied include cells, chemistry, enzymes, human body systems (anatomy and physiology) and the concept of homeostasis.  
Alberta Education Course Equivalency: Biology 30  
Prerequisite: BIOL 025 or equivalent or permission of the Program Chair
**BIOL 107**  
**Introduction to Cell Biology**  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
The properties and functions of organisms depend upon those of individual cells. To understand organisms, it is necessary to understand cells. The course will begin with an examination of the natural origin of life, and of cells. There will be an introduction to cellular structure and function, beginning with prokaryotic cells, followed by eukaryotic cells. This will be followed by an examination of cell respiration, photosynthesis, and a discussion of how cell compartmentalization is important for efficient cell functioning. Control of cell functioning and structure will be explored through an examination of the molecular nature and expression of the genetic material. The course will finish with an introduction to the application of genetic knowledge in genetic engineering and biotechnology.  
Prerequisites: Biology 30 and Chemistry 30

**BIOL 108**  
**An Introduction to Biodiversity**  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
Our planet supports a remarkable diversity of life. This course examines how evolution has generated the major lineages of organisms and how these evolutionary histories are reflected in their classification. An overview of evolutionary principles, taxonomy, and the history of life is followed by a survey of the key adaptations of prokaryotes, protists, fungi, plants, and animals. Drawing on examples from each of the biological kingdoms, the course will consider the diversity of life and the fundamental processes which unify all living things. The laboratory exercises investigate the diversity of biological form and function and introduce students to data collection and scientific writing.  
Prerequisite: Biology 30

**BIOL 201**  
**Eukaryotic Cellular Biology**  
3 credits, 16 weeks, 3 hours lecture  
A dissection of eukaryotic cells from the molecular to functional level. Specific emphasis will be given to molecular functioning of the membrane, cytoskeleton, endocytosis, intracellular transport, nucleus structure, DNA replication, mitosis, cytokinesis, endomembrane bound organelles, exocytosis, cell-cell signalling, and regulation of cellular replication.  
Prerequisite: BIOL 107  
Prerequisite or Co-requisite: Any University Level Chemistry Course  
Note: Not available to students with credit in or enrolled in CELL 201.

**BIOL 207**  
**Molecular Genetics and Heredity**  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
This course examines the chromosomal and molecular basis of gene function and transmission. The regulatory mechanisms controlling the expression of the genetic material in both prokaryotes and eukaryotes are considered. Students gain experience with classical genetics and current molecular biology techniques used in the isolation of specific genes and the construction of genetic and physical maps of genes and genomes.  
Prerequisite: BIOL 107

**BIOL 208**  
**Principles of Ecology**  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
Biology 208 deals with the principles of ecology including the interactions between organisms and their environment resulting in the formation of communities, ecosystems, and biomes. Biology 208 is a core course in the department of biology and is required for animal biology, bioinformatics, cell biotechnology, environmental biology, evolutionary biology, microbiology, molecular genetics, physiology, and plant biology.  
Prerequisite: BIOL 108

**BOT 205**  
**Fundamentals of Plant Biology**  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
This course is an overview of the diversity and biology of organisms traditionally included in the Plant Kingdom (algae, fungi, lichens, mosses, ferns, gymnosperms and flowering plants). Adaptations which allow plants to inhabit particular ecosystems and biomes are examined, with an emphasis on structural and functional innovations and the evolution of reproductive strategies. Symbioses and co-evolutionary relationships between plant species and between plants and other groups of organisms are also considered.  
Prerequisite: BIOL 108

**BUS 100**  
**Business Communications**  
3 credits, 16 weeks, 4 hours lecture  
From memos and letters to short informal reports, this course reviews the basics of business writing format and technique. It offers a complete refresher on grammar, punctuation, and sentence structure, as well as a brief introduction to the art of speech making. Course content includes the following: concise, direct written expressions; sentence clarity and variety; effective research strategies; short informal reports; and brief oral presentations that achieve results. This course provides an opportunity to brush up your writing skills, and other business communication skills before proceeding to more advanced classes.  
Prerequisites: English 30/30-1 or 33/30-2
BUS 101
Report Writing and Presentations
3 credits, 16 weeks, 4 hours lecture
Business students can improve their skills in two specific areas: research strategies and report writing; and design and delivery of business presentations. The writing component of the course covers a broad spectrum of business documents, from short informal reports to formal reports and proposals. The oral communication component of the course introduces students to speeches designed for a variety of business purposes. Three specific presentations are required: a demonstration speech; an informative speech based on the formal report topic; and a persuasive presentation. Students also are required to analyze business communication problems in groups and to present the cases.
Prerequisites: BUS 100 or ENGL 108

BUS 102
Interpersonal Skills for Business
3 credits, 16 weeks, 2 hours lecture, 1 hour tutorial
Develops the interpersonal communication skills that managers need in order to function effectively in the contemporary organization. Making extensive use of behavioural simulation techniques such as role-playing and group problem-solving, students will learn active listening, conflict-management, persuasion, delegating and other general purpose skills. The course will also deal with the specialized skills and techniques needed in performance appraisal, discipline, group meeting and goal-setting situations.

BUS 103
Introductory Business Computing
3 credits, 16 weeks, 4 hours lecture
The students will be introduced to the principles of computers and data processing. This is achieved through the analysis and use of hardware and microcomputer business software. Hands-on usage of application software is stressed throughout the course. Applications focused on are word processing, financial spreadsheets, presentation packages, and project schedulers. Actual applications covered will depend on software availability and interest level in the application areas.

BUS 110
Business Mathematics
3 credits, 16 weeks, 5 hours lecture
Students will cover (a) a review of basic algebra, ratio and proportion, and linear systems; (b) the mathematics of Business Management including the calculation of depreciation, discounts, simple interest and mark-ups; and (c) the mathematics of finance which includes compound interest, future value, present value, annuities, amortization, bond valuation, sinking funds, and discounted cash flows. It is expected that two-thirds of the course will focus on item (c). An emphasis on the use of word problems and small case studies will be stressed to bring the real world usefulness of the material to light.
Prerequisites: Math 30/33 or Math 30-2

BUS 111
Statistics I
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
Students are introduced to basic statistical concepts and procedures used to solve business problems. Topics covered include: data graphics and charts; measures of central tendency and dispersion; elementary probability; probability and sampling distributions; interval estimation; hypothesis-testing; regression & correlation. Students will also develop competence in the use of data analysis software.
Prerequisite: BUS 103

BUS 121
Work Term I
9 credits, 16 weeks, 37.5 hours practicum
Students in a Co-op Education program will be registered under this course number for their first work placement, following the completion of Year I of their academic program.
Prerequisite: Complete first year of Business Administration program

BUS 130
Introductory Accounting I
3 credits, 16 weeks, 5 hours lecture
An introduction to the subject of accounting will be provided. The major objective of BUS 130 and BUS 131 is to foster an understanding of accounting and the way it serves in developing useful information which will provide a basis for sound business decisions. Topics of study include the procedural matters relating to the complete double entry accounting cycle, including special journals, subsidiary and general ledgers, worksheets and the preparation of financial statements.
Prerequisites: Math 30/33 or Math 30-2

BUS 131
Introductory Accounting II
3 credits, 16 weeks, 5 hours lecture
Students continue with topics from BUS 130 such as: partnership accounting, formation of corporations, analysis of financial statements, and the statement of changes in financial position. The emphasis in this course is on the development of a sound understanding of accounting by means of practical examples.
Prerequisite: BUS 130

BUS 191
Management
3 credits, 16 weeks, 4 hours lecture
To manage organizations successfully, front line supervisors must follow concepts and practices of effective supervision and human relations. This course deals with basic managerial functions of supervisors and the strategies they need to become “well rounded total persons”. Major topics include decision-making, planning, organizing, directing, controlling, communicating, motivating and strategies for improving the work environment.
BUS 204
Accounting Software Applications
3 credits, 16 weeks, 4 hours lecture
Students’ hands-on usage of microcomputer business software that began in BUS 103 continues. The class focuses on computerized accounting and also enhances the students’ abilities with the Windows operating system. Other types of application packages, such as databases, will be introduced, as will advanced functions on spreadsheets and word processors.
Prerequisites: BUS 103 and BUS 130

BUS 211
Statistics II
3 credits, 16 weeks, 4 hours lecture
This course is a continuation of BUS 111, with more concentration on regression and correlation analysis, time series analysis, simulation, forecasting, application of samples, decision analysis, project scheduling, and so on.
Prerequisite: BUS 111
Note: Students requiring this course for their CGA designation may take the equivalent Athabasca University course, MGSC 312.

BUS 212
Human Resources Management Methods
3 credits, 16 weeks, 3 hours lecture
This course deals with information technologies and quantitative techniques as they are applied in Human Resource Management. Specific topics include the following: design, development and use of Human Resource Information Systems; graphical and numerical description of data sets; forecasting techniques (specifically applied to labour supply/demand); regression and correlation analysis (particularly as it applied to validation of selection tools). This course includes a computer lab component so that students can get some hands-on experience with the tools studied.
Prerequisite: BUS 271 or permission of the Program Chair

BUS 221
Work Term II
9 credits, 16 weeks, 37.5 hours practicum
Students in a Co-op Education program will be registered under this course number for their second work placement.
Prerequisite: Complete third semester of either BA/CIS program

BUS 222
Work Term III
9 credits, 16 weeks, 37.5 hours practicum
Students in a Co-op Education program will be registered under this course number for their third work placement.
Prerequisite: BUS 221

BUS 223
Work Term IV
9 credits, 16 weeks, 37.5 hours practicum
Students in a Co-op Education program will be registered under this course number for their fourth work placement.
Prerequisite: BUS 222

BUS 220
Intermediate Financial Accounting I
3 credits, 16 weeks, 5 hours lecture
Accounting theory and practice are covered at an intermediate level. The statement of changes in financial position is studied in depth. Other topics will include such items as cash flow, receivables, inventories, capital assets, investments, and current liabilities. The emphasis in the course will be on practical conditions, using a problem solving approach to accounting situations.
Prerequisites: BUS 110 and BUS 131

BUS 230
Intermediate Financial Accounting II
3 credits, 16 weeks, 5 hours lecture
Accounting theory and practice are covered at an intermediate level. The statement of changes in financial position is studied in depth. Other topics will include such items as long-term investments in corporate securities, current liabilities, long-term liabilities, leases, pensions, deferred taxes, contributed capital, stock rights, stock options and convertible securities, treasury stock, and analysis of financial statements. The emphasis in the course will be on practical conditions, using a problem solving approach to accounting situations.
Prerequisites: BUS 110 and BUS 131

BUS 231
Introduction to Corporate Finance
3 credits, 16 weeks, 4 hours lecture
The finance function of a business is covered including: the role of a financial manager, the risk-return relationship, capital budgeting analysis, and the impact of debt in a company’s capital structure. These ideas are developed through examples from the text and the lecturer. Also, students will have a practical assignment that requires them to observe the trading behaviour of a common stock in a company of their choice. This assignment provides them with an opportunity to observe the role of the capital markets, and strongly relates to the concepts discussed during the course.
Prerequisites: BUS 111 and BUS 131
BUS 233
Management Accounting I
3 credits, 16 weeks, 5 hours lecture
Students are provided with a knowledge of the fundamentals of cost accounting methods and procedures. Initially, students learn cost concepts, the cost accounting cycle, cost terminology and cost behaviour. Next, students focus on job and process costing systems. Other topics may include cost allocation, operation and activity-based costing, standard costs and variance analysis.
Prerequisite: BUS 111 and BUS 131

BUS 234
Management Accounting II
3 credits, 16 weeks, 5 hours lecture
The accounting function is examined as an information tool of management. The objective is to provide the necessary background so that students gain an appreciation of the corporate accounting system and learn how to weigh alternatives and make decisions concerning a wide variety of managerial problems. Topics covered may include: financial analysis of corporate annual reports, the master budget, various cost systems, standard costs and variance analysis, and short and long range planning and decision making.
Prerequisite: BUS 233

BUS 235
Auditing
3 credits, 16 weeks, 3 hours lecture
The philosophy and practice of auditing is introduced. Initially, the course will cover the conceptual framework of auditing and then expand into practical applications. The fundamental objectives are to develop the skills to assist management to appraise the effectiveness of various operations with a view to enhancing efficiency and profitability.
Prerequisites: BUS 110 and BUS 131

BUS 236
Managerial Finance for Managers
3 credits, 16 weeks, 3 hours lecture
A basic introduction to the concepts involved in corporate finance is provided. Students will also learn how internal and external economic factors influence a business's cash flows and how to apply time value of money concepts to business decisions. Topics covered may include: financial ratios, capital budgeting, cost of capital, valuation of dividends and common stock, working capital management, risk and return, financial markets, dividend policy, and international finance.
Prerequisites: BUS 110 and BUS 131 (BUS 111 recommended)
Note: Students may not hold credit for both BUS 232 and BUS 236.

BUS 237
Managerial Accounting for Managers
3 credits, 16 weeks, 3 hours lecture
The use of accounting information by people within organizations to plan and control operations is examined. Various techniques for processing and interpreting information are introduced, emphasizing the development of information systems appropriate for specific decision needs. The impact of accounting information on the behaviour of various users within the organization is studied.
Prerequisites: BUS 110 and BUS 131
Note: Students may not hold credit for both BUS 233 and BUS 237.

BUS 239
Marketing
3 credits, 16 weeks, 4 hours lecture
The student is introduced to the highly dynamic field of marketing. Marketing is based on the premise that successful marketing of goods, services and ideas is fundamental to the functioning of our society. The major focus of the course is on understanding marketing, analyzing marketing opportunities and planning marketing strategies related to product, promotion, price and place.

BUS 240
Consumer Behaviour
3 credits, 16 weeks, 3 hours lecture
Consumer behaviour is explored from the theoretical perspectives of economics, psychology and sociology. Models of consumer decision-making and basic research methodologies will be introduced. The student will explore the full spectrum of marketing research activities, as they apply to determining and interpreting consumer behaviour. Topics will include research design, instrument development and administration, result interpretation and subsequent application.
Prerequisite: BUS 239

BUS 241
Retailing and Merchandising
3 credits, 16 weeks, 3 hours lecture
Environmental factors influencing retailing are examined, including economic, demographic and technological changes and trends. An overview of basic marketing concepts, such as marketing mixes, segmentation and marketing strategies, as these concepts relate to consumers' behaviour, will provide a basis from which to examine the world of retailing. Specific attention is given to merchandise management that encompasses information planning and control systems, procurement and inventory control systems, as well as the mechanics of ordering and receiving merchandise.
Prerequisite: BUS 239
**BUS 242**  
**Introductory Marketing Research**  
3 credits, 16 weeks, 4 hours lecture  
Students are introduced to marketing research and its use in organizational decision-making. Major topics to be covered include: the place of research in marketing, research designs, data acquisition, and analysis and marketing research in action.  
*Prerequisites: BUS 110 and BUS 239 (BUS 111 highly recommended)*

**BUS 243**  
**Advertising**  
3 credits, 16 weeks, 4 hours lecture  
Students acquire an understanding and appreciation of the role of advertising in our society and in organizations. Advertising will be studied as the major component of “Promotion” in the design of marketing mix strategies. The topics to be studied will include: understanding advertising, audience definition, research and planning, the creative process, media selection, and putting the advertising campaign together.  
*Prerequisite: BUS 239*

**BUS 244**  
**Professional Selling**  
3 credits, 16 weeks, 3 hours lecture  
Handling people is the basis of leadership in all endeavors. This ability is little more than salesmanship under another name. It is the universal applications of the principles of selling which justifies its study even by those who never expect to become salespersons. It is the art of handling people and selling ideas to them. This course will involve the use of cases, research presentation, micro sales situations, and will rely heavily on classroom discussion and involvement.  
*Prerequisite: BUS 239*

**BUS 245**  
**Promotions**  
3 credits, 16 weeks, 3 hours lecture  
The role of promotion in the design of a marketing mix strategy is examined. Students will understand the dynamics of the promotional mix including sales, advertising, public relations, publicity, and trade and consumer sales promotions. Topics will include trade show and event marketing, new media such as the internet and media relations as well as more traditional aspects of promotion. Classroom discussion and involvement through the use of cases or projects is stressed.  
*Prerequisite: BUS 239*

**BUS 246**  
**Business Ethics**  
3 credits, 16 weeks, 3 hours lecture  
This course provides an introduction to business ethics. Part philosophy and part business, the course covers a wide array of ethical issues arising in contemporary business life. Major theoretical perspectives and concepts are presented, including ethical relativism, utilitarianism, deontology and virtue ethics. The lessons explore employee issues and responsibilities, leadership and decision making, morality, diversity, discrimination, and ethics in marketing and advertising. Corporate social responsibility is also examined, as are that topics of environmental responsibilities, global ethics, and regulation concerns in an era of increasing globalization.

**BUS 251**  
**Accounting Information Systems**  
3 credits, 16 weeks, 4 hours lecture  
Systems analysis and design is introduced with an emphasis on understanding the concepts of analysis, design and implementation of interrelated information systems. Students will define processes and techniques utilized in information systems analysis and design through the use of case studies. Current computer approaches in information system design and implementation will also be investigated.  
*Prerequisite: BUS 204*

**BUS 260**  
**Business Law**  
3 credits, 16 weeks, 3 hours lecture  
A general knowledge of the laws that govern the formation and effect of commercial contracts and the establishment and operation of business organizations are covered. The overall objective of the course is to provide the student with a practical background of commercial transactions so that the student can deal more effectively and confidently with such transactions. Topics include: laws of contract and tort; creation and organization of sole proprietorships, partnerships and corporations; laws affecting ownership of interest in land; and the nature of employment contracts, insurance agreements, leases, mortgages, agreements of sale, chattel mortgages, conditional sales agreements, debentures and contracts of sale.

**BUS 261**  
**Taxation**  
3 credits, 16 weeks, 3 hours lecture  
The Income Tax Act is used to analyze the five types of income: employment income, capital gains, income from property, business income, and “other” income. Deductions from income are also analyzed, as well as the determination of taxes payable. The course focuses on personal taxation, although a brief introduction to corporate taxation is provided toward the end of the course.  
*Prerequisite: BUS 232*
BUS 262
Advanced Taxation
3 credits, 16 weeks, 3 hours lecture
In-depth, applications approach to the Income Tax Act is covered with a concentration on the corporation and its shareholders with an emphasis on tax planning. Coverage includes computation of income and tax payable for partnerships, trusts and corporations; capital gains; corporate reorganizations; distributions to shareholders; deferred compensation; and foreign income and tax treaties.

BUS 263
Business Simulation
1.5 credits, 24 hours lab over 1.5 weekends
Delivered over portions of two weekends, this course contains a comprehensive, integrated software “game” that simulates a real firm in a real industry. Students are asked to compete as a group against other student teams. Business decision making skills are examined under the duress of competitive pressures, time pressures, and in a team setting.
Prerequisite: Completion of Accounting or Business certificate
Co-requisite: Enrollment in or completion of at least 3 additional second year courses of the appropriate diploma program

BUS 264
Integrated Case
1.5 credits, 21 hours lab
A comprehensive final examination to the program within a group setting is represented by this course. Students compete against one another as consultants solving real life business problems that have been presented in a case competition format.
Prerequisite: Completion of all other Accounting or Business Diploma courses

BUS 270
Organizational Behaviour
3 credits, 16 weeks, 4 hours lecture
Important theories and research in the Behavioural Sciences are examined and a framework for understanding and predicting human behaviour in the workplace is provided. Topics studied include personality, perception, attitudes, motivation, leadership, job design, organizational design, group dynamics and decision-making processes. The focus is on explaining differences in work effort, performance, absenteeism, turnover and job satisfaction among individuals in the organization.

BUS 271
Human Resource Management
3 credits, 16 weeks, 4 hours lecture
The complex and strategically important field of Human Resource Management (HRM) is surveyed, providing a comprehensive understanding of the HRM function and its place in the contemporary organization. The course also provides a base of practical knowledge about topics such as employment equity, recruitment and selection, job analysis, compensation, benefits administration, performance appraisal, health and safety administration, and employment law.

BUS 272
Industrial Relations
3 credits, 16 weeks, 3 hours lecture
Dealing with the interaction of unions and employers in the framework of collective bargaining, this specialized Human Resource Management course focuses on the three key activities included in the Industrial Relations system: union certification, contract negotiations and grievance administration. Additional topics include the evolution of labour law, the structure and development of the Canadian labour movement, and industrial relations in the public sector. The course makes use of case discussions and bargaining simulation exercises in addition to the lecture/discussion method.
Prerequisite: BUS 261

BUS 273
Organizational Theory
3 credits, 16 weeks, 4 hours lecture
Organizational Theory is concerned with the relationship of organizational design to organizational effectiveness. The course is based on the assumption that management decisions about the structure of the organization, for instance the number of levels in the management hierarchy or the pattern of departmentalization, influence the performance and the survival prospects of the organization. The course describes and evaluates a range of contemporary and historical designs, including, amongst others, the bureaucratic, functional, divisional, matrix and network structures. The implications that factors such as organizational size, strategy, environment, technology and use of power have for organizational design decisions are examined in depth.
Prerequisite: BUS 270
BUS 274
Staffing
3 credits, 16 weeks, 3 hours lecture
This course begins with an examination of the different methods and information sources used to forecast an organization’s need for human resources. Then, the course addresses various recruitment techniques, with emphasis on the identification of effective sources and media for particular types of jobs, and on the design of effective recruitment messages. The third and largest portion of the course examines the range of tools and techniques used to select the best candidate from a pool of recruits, including Application Banks, Interviewing, Selection Tests, and Background (Reference) checks. Prerequisite: BUS 271 or permission of the Program Chair

BUS 275
Critical Thinking
3 credits, 16 weeks, 3 hours lecture
Students are introduced to analysis and evaluation of the kinds of arguments, theories and problems that are commonly encountered in everyday life. Course material is derived from daily media, textbooks and business situations. Students will improve their own arguments and presentations by drawing sound conclusions from available evidence, and arranging reasons well to support conclusions. Topics include detection and diagrams of arguments, syllogisms, fallacies, inductive reasoning, misuse of statistics, empirical and conceptual theories, and problem solving.

BUS 276
Benefits & Compensation Management
3 credits, 16 weeks, 3 hours lecture
This course takes a detailed look at the methods used to determine fair and competitive wage and salary levels (i.e. Job Evaluation); provides an extensive critical survey of performance-based and knowledge-based compensation systems; and provides an in-depth treatment of the complex topic of supplemental benefits. Prerequisite: BUS 271 or permission of the Program Chair

BUS 277
Health & Safety/Loss Management
3 credits, 16 weeks, 3 hours lecture
This course begins with an in-depth look at the provisions of Health & Safety legislation, particularly in the province of Alberta. The common types and causes of workplace injury and work-related disease are then reviewed, in order to identify the primary on-the-job risk exposures. The main part of the course critically examines different approaches to Accident Prevention in the workplace, and also looks at the emerging trend of wellness programs. Prerequisite: BUS 271 or permission of the Program Chair

BUS 278
Training & Development
3 credits, 16 weeks, 3 hours lecture
This course covers the procedures involved in developing and implementing a training program, and also provides participants with practical instructional skills. Topics include: training and development compared; methods for the determination of training needs; critical survey of training and development methods; instructional techniques; systematic assessment of training/development courses and programs. Prerequisite: BUS 271 or permission of the Program Chair

BUS 279
Performance Management
3 credits, 16 weeks, 3 hours lecture
In general terms, this course reviews strategies for optimizing employee performance and behaviour in the workplace. Topics include: goal-setting theory; determination of performance criteria; qualitative and quantitative appraisal techniques; disciplinary procedures. Prerequisite: BUS 271 or permission of the Program Chair

BUS 291
Advanced Supervision
3 credits, 16 weeks, 3 hours lecture
Operational strategies available to managers for utilizing human resources more effectively are the focus of this course. It combines supervision concepts and practices to integrate managerial functions for dealing with organizational situations. Major areas of concern in this course are: planning and controlling; structuring and staffing; directing and influencing; and societal concerns affecting organizational life. Prerequisite: BUS 191

BUS 293
New Enterprise Development
3 credits, 16 weeks, 3 hours lecture
Business plan development is derived by: monitoring the economic and social environment to identify opportunities for a business venture; researching those opportunities; and preparing the actual business plan. The course gives students an opportunity to demonstrate knowledge gained in prior courses, such as marketing and accounting. Students will work in groups on their business plan as this ensures a mix of skills and talents. Prerequisites: BUS 110, BUS 131 and BUS 239
COURSE DESCRIPTIONS

BUS 294
Project Management
3 credits, 16 weeks, 3 hours lecture
Change is a necessary part of the operation of a successful enterprise in the modern economy. One tool for ensuring that change is effectively implemented is Project Management. Topics to be studied include: project scheduling, project control and budgeting, and project planning. Students, working in groups, will be expected to develop and complete a project and the related schedules and reports associated with its planning and implementation.
Prerequisites: BUS 103, BUS 110 and BUS 191 (BUS 111 highly recommended)

BUS 295
Quality Management
3 credits, 16 weeks, 4 hours lecture
Concepts and practices of the management of product quality in a business organization are introduced. The course will utilize a “Total Quality Management” (TQM) perspective. Initially, students will learn the principles by which a customer-based definition of quality is determined, and then develop methodologies, tools and practices which ensure that quality is “built into” products (meaning manufactured goods and/or services). Various tools, such as Pareto charts, x-charts and cause-and-effect diagrams will be developed, as well as more comprehensive techniques such as Quality Function Deployment (QFD). Relevant organizational issues, such as the need for quality data and information systems, and the role of leadership, will also be examined. Students will be expected to display competence in the use of the techniques and practices in various quality measurement and enhancement projects. Several group projects will be assigned.
Prerequisites: BUS 110 and BUS 191 (BUS 111 highly recommended)

BUS 296
Operations Management
3 credits, 16 weeks, 3 hours lecture
The area of operations management is introduced by focusing on quantitative skills managers need to operate a production or service firm. A variety of planning and decision-making tools are introduced. The course may deal with but will not be limited to tools that deal with facility location, internal layout, capacity planning, quality control, inventory control, process planning, forecasting, project scheduling, etc.
Prerequisites: BUS 110 and BUS 191 (BUS 111 highly recommended)

BUS 297
Selected Topics in Management
3 credits, 16 weeks, 3 hours lecture
Periodically the Business Administration Department will offer courses in specialized topics which are not included in the department’s normal course offerings. Such courses will be offered under this course name and number. The specialized focus of each offering of this course will be announced in advance. The topic(s) studied will depend on the availability of an appropriately qualified instructor.
Prerequisite: Permission of the Program Chair

BUS 298
Selected Topics in Management
3 credits, 16 weeks, 3 hours lecture
Periodically the Business Administration Department will offer courses in specialized topics which are not included in the department’s normal course offerings. Such courses will be offered under this course name and number. The specialized focus of each offering of this course will be announced in advance. The topic(s) studied will depend on the availability of an appropriately qualified instructor.
Prerequisite: Permission of the Program Chair

BUS 299
Strategic Management
3 credits, 16 weeks, 3 hours lecture
Integrated knowledge that students have developed in their studies of marketing, accounting, economics and organizational behaviour and other areas will be used for strategic planning of an organization. This course will include an examination of the current theory that applies in the field of business policy and group work in case analysis. This will provide students with a strategic perspective from which to make business decisions.
Prerequisite: Completion of a minimum of 7 Business courses including BUS 110, BUS 130, BUS 239, and BUS 191

BUS 330
Advanced Financial Accounting
3 credits, 16 weeks, 3 hours lecture
This course continues with the further development of the concepts covered in the introductory and intermediate accounting courses. The objectives of financial reporting, and focus on specialized areas, such as accounting for business combinations, consolidations, and other forms of business formation, including partnership and joint ventures will be re-emphasized. Other topics to be studied include current value accounting, foreign currency translation, and accounting for not-for-profit organizations. The knowledge portion of this course will be re-enforced through the discussion of cases covering multiple subjects.
Prerequisite: BUS 231
BUS 333  
Management Accounting III  
3 credits, 16 weeks, 3 hours lecture  
Statistical concepts and skills, such as regression analysis, are further developed and are integrated with financial and accounting concepts to present the student with a range of statistical decision problems unique to the accounting profession. Topics may include regression and correlation analysis, linear programming, short-term decision analysis under certainty and uncertainty, as well as capital budgeting under certainty and uncertainty.  
Prerequisite: BUS 234

BUS 334  
Management Accounting IV  
3 credits, 16 weeks, 3 hours lecture  
The complexities of, and options available for, performing the management accounting control function(s), as it applies to profit-seeking private sector organizations as well as not-for-profit organizations are dealt with in this course.  
Prerequisite: BUS 333

BUS 336  
Management: Processes & Problems  
3 credits, 16 weeks, 3 hours lecture  
This course is an overview of management accounting information for planning, control, and decision-making purposes. The following topics may be covered:  
- the concept of planning; strategic planning and its implementation  
- budgeting  
- production and marketing  
- project planning and control  
- design and implementation of management control systems  
- discretionary expense centers  
- profit centers and transfer pricing  
- total performance measurement  
- management control in not-for-profit organizations.  
Prerequisite: BUS 234  
Note: Students requiring this course for the CMA designation may take the equivalent Athabasca University course, ADMIN 404.

CCC 001  
Interpersonal Skills for Education and Employment I  
5 credits, 16 weeks, 8 hours lecture  
Students will learn how to communicate appropriately as team members with their supervisor, coworkers, teachers, or peers. They will develop the skills to listen attentively, ask clear questions in a non-confrontational manner and provide useful feedback. Team building exercises will be used to demonstrate the basics of conflict management in a multicultural class or workplace setting and how to disagree in a positive manner. Students will learn to negotiate with peers and those in authority to resolve arguments. Assertiveness training, anger management and self-esteem building will be included. Information about support resources for students and their families will be provided in conjunction with community agencies.

CCC 002  
Goal Setting  
4 credits, 16 weeks, 6 hours lecture  
This course introduces students to the process of short and long-term goal setting, including what are the characteristics of a realistic plan and identifying roadblocks to successful planning.

CCC 003  
Academic Skill Development  
4 credits, 16 weeks, 6 hours lecture  
This course is designed to cover the writing, computer, math, and reading skills needed in the individual work placement. Individualized academic remediation with Computer Assisted Instruction and tutor support is available. Students will develop independent study and research skills. This course will teach students how to manage their time, use SQ3R techniques, take different sorts of tests, control test anxiety, make notes and access library resources. Learners will also learn how to set priorities, do simple time studies analysis, as well as develop and use day plans or lists.

CCC 004  
Problem Solving and Critical Thinking  
2 credits, 16 weeks, 2 hours lecture  
Students will learn what it takes to be a critical thinker. They will practice procedures for evaluating and handling problems at school and work. Topics covered will include: knowing your attitudes, values, and mental habits; how to recognize errors in thinking; how to evaluate ideas; and how to apply critical thinking. The skills and knowledge covered in this course build on those introduced in CCC 002 – Goal Setting.  
Prerequisite: CCC 002 or permission from the Program Chair
CCC 005
Interpersonal Skills for Education and Employment II
5 credits, 16 weeks, 8 hours lecture
This course will help students understand the impact of personal hygiene, work appropriate clothing, demeanor, vocabulary choice, speech patterns, body language and manners in securing and retaining employment or succeeding in formal education. Students will explore how employee behaviour impacts a business’ success. They will learn how to develop a networking plan, use available on-line and print resources effectively, prepare resumes, present themselves honestly and positively to employers, develop an interview plan, complete applications and practice interview skills. 
Prerequisite: CCC 001 or permission from the Program Chair

CCC 006
Employment Safety, Rights and Responsibilities
5 credits, 16 weeks, 6 hours lecture
Students will examine the leading causes of workplace injury and generic procedures for accident reporting. They will be given skills to better identify potential workplace hazards, healthy lifestyles, appreciate near miss analysis in safety reporting and value the importance of PPE (Personal Protective Equipment) on the job. Learners will have the opportunity to earn First Aid, CPR, WHMIS, CSTS and Class 5 drivers’ license certification. In addition, they will learn the rights and legal responsibilities of the employee and employer in the Alberta marketplace. Material will include discussion of rates of pay, work hours, hiring and dismissal procedures, sexual harassment, discrimination, theft, misuse of business property, and liability.

CCC 007
Supported Work Placement
5 credits, 16 weeks, 8 hours practicum
Students will participate in an equivalent 2-month, part-time work placement, which will be integrated with ongoing in-class training. The schedule and duties of this work placement will be determined in consultation with the student, employer and instructional team. Input will be requested from referral agencies. Students will receive information about community employment-related resources.

CHEM 025
Chemistry 025
6 credits, 16 weeks, 6 hours lecture
Chemistry 025 begins with an introduction to elements and the Periodic Table, followed by atomic theory and periodicity, chemical bonding and types of compounds, chemical bonding and types of compounds, chemical nomenclature, and chemical reactions. The remainder of the course focuses on calculations involving measurements in chemistry, the metric systems (SI), and scientific notation as applied to gases, solutions (including acids and bases), and stoichiometry.
Alberta Education Course Equivalency: Chemistry 10 and Chemistry 20
Co-requisite: MATH 010C or permission from the Program Chair

CHEM 030
Chemistry 030
5 credits, 16 weeks, 6 hours lecture, 2 hours lab on alternate weeks
Chemistry 030 begins with a review of Chemistry 025, followed by a study of enthalpy changes and calorimetry; equilibrium Bronsted-Lowry acid-base theory and acid-base titrations; oxidation-reduction reactions and electrochemical cells, and organic chemistry, including organic reactions and nomenclature of hydrocarbons, aromatics and other functional groups.
Alberta Education Course Equivalency: Chemistry 30
Prerequisite: CHEM 025 or equivalent or permission from the Program Chair

CHEM 101
Introductory University Chemistry I
3 credits, 16 weeks, 4 hours lecture, 3 hours lab
Atoms and molecules, states of matter, chemistry of the elements, relevance and uses of elements and compounds.
Prerequisite: Chemistry 30 or equivalent

CHEM 102
Introductory University Chemistry II
3 credits, 16 weeks, 4 hours lecture, 3 hours lab
Rates of reactions, thermodynamics and equilibrium, electrochemistry, modern applications of chemistry.
Prerequisite: CHEM 101

CHEM 103
Introductory University Chemistry I
3 credits, 16 weeks, 4 hours lecture, 3 hours lab every second week
4.3 Engineering units for the University of Alberta
Atoms and molecules, states of matter, chemistry of the elements, relevance and uses of elements and compounds.
Prerequisite: Chemistry 30 or equivalent
Note: Chemistry 103 is restricted to Engineering students only.
CHEM 105
Introductory University Chemistry II
3 credits, 16 weeks, 4 hours lecture, 3 hours lab every second week
3.8 Engineering units for the University of Alberta
Rates of reactions, thermodynamics and equilibrium, electrochemistry, modern applications of chemistry.
Prerequisite: CHEM 103
Note: Chemistry 105 is restricted to Engineering students only.

CHEM 164
Organic Chemistry I
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Chemistry 164 introduces the relationships between molecular structure, chemical bonding, and the properties and reactivity of organic compounds. The nomenclature and stereochemistry of carbon compounds are introduced. The chemistry of functional groups, primary alkanes, alkenes, and alkynes, alkyl halides, alcohols and some aromatic compounds, is studied through characteristic reactions and reaction mechanisms, especially nucleophilic substitutions, elimination reactions and additions to double bonds.
Prerequisite: Chemistry 30 or equivalent. Restricted to students with CHEM 30 averages of 90% or higher, unless accepted with permission of the Program Chair.
Notes:
1. This course is designed for students in programs such as Pharmacy which require a full year of organic chemistry to be completed in first year.
2. Students who already have credit for CHEM 101 should register in CHEM 261

CHEM 261
Organic Chemistry II
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Organic Chemistry I introduces the correlation of structure and chemical bonding in carbon compounds with the physical properties and chemical reactivity of organic molecules. With discussion based on selected functional groups, the course will introduce stereochemistry, three dimensional structure, and reaction mechanisms, especially the mechanisms of addition to double bonds, nucleophilic substitution and elimination reactions. Functional groups covered will emphasize hydrocarbons and derivatives that contain halogens, oxygen, sulphur, and the hydroxy group.
Prerequisite: Chemistry 101 or 103
Note: Students who have credit for CHEM 161 cannot take CHEM 261 for credit. Engineering students who take this course will receive *4.5.

CHEM 263
Organic Chemistry II
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Chemistry 263 continues the study of molecular structure and reactivity of organic compounds with oxygen containing functional groups, aromatic compounds, amines, and molecules of biological importance. The use of organic spectroscopy in the determination of molecular structure is introduced.
Prerequisite: CHEM 161 or CHEM 164 or CHEM 261

COKER 101
Delayed Coking
1 credit
Importance of the relationship of operating parameters to the efficiency of the cracking process (temperature, pressure, flow, levels, feed composition, etc).

COKER 102
Process Flow
1 credit
Review process flow diagrams and P & ID’s of a typical delayed coking system, review process operation parameters and procedures. Operate a delayed coking simulator to troubleshoot, recognize and respond to process upsets in the system.

COKER 103
Decoking
1 credit
Typical decoking cycles, drum decoking methods, procedures and hazards. Coke handling equipment. Furnace tube decoking methods, procedures and precautions.

COKER 104
Pumps & Compressors
2 credits
Basic pump types and operation, basic compressor types and operation. High, medium and low pressure steam systems and their purpose in delayed coking systems.

COKER 105
Instrumentation
2 credits
Fundamental instrumentation simulator, hands on operation of auxiliary equipment in the process lab setting.

COKER 106
Safety Training
2 credits

COKER 107
Basic Computer Skills
1 credit
Basic computer training in word, excel. Completing and filling out forms on the computer.
**COURSE DESCRIPTIONS**

**COKER 108**  
*Work Practicum*  
5 credits  
216 hours in the Coker unit at Suncor – 3 cycles – 6 on/6 off (3 days 3 nights)

**COM 005**  
*Communication Skills*  
2 credits, 16 weeks, 2 hours lecture  
Communication skills for everyday living at home, at school, on the job. Students will learn about and practice:  
• attending behaviours  
• being a good listener  
• expressing themselves effectively  
• assertiveness skills  
• making a positive impression on others.

**COMP 005**  
*Computers*  
2 credits, 16 weeks, 2 hours lab  
This is an introductory computer course, designed for anyone who has never used a computer before. It will teach participants the parts of the computer a typical user needs to know: how to turn on and off a computer, how to open, save and exit from Word in a Windows 2000 operating environment, and how to do basic word processing. It will also strengthen keyboarding skills.

**COMP 010**  
*Computer Literacy 010*  
5 credits, 16 weeks, 5 hours lecture  
This course is an introduction to microcomputers and basic software applications such as Word 2000 and Excel 2000. This course may be used to fulfill the science requirement of the High School Equivalency certificate.  
*Alberta Education Course Equivalency: Computer Literacy 10*  
*Co-requisites: AFM 009 and AFL 009 or permission from the Program Chair*

**COMSC 101**  
*Introduction to Computing*  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
This course provides an overview of computing science concepts for students with little or no programming background. Topics include representation of data; machine architecture; operating system concepts; properties of algorithms and computational problems; syntax of a high-level procedural programming language; basic data types and control structures. Students do introductory programming for a portion of the course and HTML and web page creation.

**COMSC 174**  
*Introduction to Computing I*  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
COMSC 174 introduces algorithmic problem solving, the foundation of computer programming, through a problem-dash based, hands-on approach. Emphasis will be on algorithm design more than on a detailed study of a programming language, though an accessible programming language such as Python will be chosen to provide a practical platform for explorations. The fundamental building blocks of the algorithm will be discussed; control flow, data structures, recursion, modularization, and testing. Programming exercises will be selected from application areas relevant to the program of study of enrolled students.  
*Prerequisite: COMSC 174*

**COMSC 175**  
*Introduction to Computing II*  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
COMSC 175 continues the study of algorithmic problem solving undertaken in COMSC 174. Emphasis will be on higher-level concepts such as functional design and object-oriented programming. Human interface design and construction will also be discussed. Programming exercises will be selected from application areas relevant to the program of study of enrolled students.  
*Prerequisite: COMSC 174*

**COMSC 272**  
*Introduction to Formal Language and Discrete Structures*  
3 credits, 16 weeks, 3 hours lecture, 1 hour lab  
This course is an introduction to formal languages and discrete structures for computing science students. Topics include sets and functions, prepositional calculus, formal proofs, Boolean algebra and applications to logic circuits, first order predicate calculus, induction and recursion, relations, equivalence relations, partial orders, directed and undirected graphs, application to relational database design.  
*Prerequisite: COMSC 174*  
*Co-requisite: COMSC 175*

**CREE 100**  
*Introductory Cree*  
6 credits, 32 weeks, 4 hours lecture, 1 hour lab  
Introductory Cree is a general introduction to Plains Cree (Y dialect) grammar, and vocabulary with an emphasis in the practice in speaking and working in the language laboratory. No prior knowledge in Cree is assumed.
CTS 001
Career Technology Studies - Energy and Mines
5 credits, 16 weeks, 4 hours lecture; 4 hours lab
This course is composed of several modules designed to promote among learners an awareness of the variety of careers they might pursue within the oil sands industry. Beginning with an overview of geology and a discussion of the issues surrounding the use of non-renewable resources, this course focuses on providing an overview of the attitudes and competencies required in this industry, as well as the highlights of oil sands mining and synthetic crude oil production. A career transition package of practical skills completes the course.
Prerequisite: Grade 9 program of studies or the equivalent

CTS 002
Career Technology Studies - Environmental Issues in the Oil Sands Industry
5 credits, 16 weeks, 6 hours lecture
This course provides practical activities that raise an awareness of the concept of responsible stewardship with respect to how industry, particularly the oil sands industry, tailors its decision-making processes to do no harm to the ecological balance of the environment in which it operates. The learner will engage in discussions and projects designed to examine present impacts of industry on the environment as well as steps being taken to control these impacts. This course concludes with an examination of the effects of emerging technologies that will be used in future projects in order to understand and minimize environmental effects of these technologies.
Prerequisite: Grade 9 program of studies or the equivalent

DANCE 110
Introduction to Modern I
3 credits, 16 weeks, 4 hours lab
Beginner study of the techniques of modern dance. This technique class concentrates on a multi-disciplinary approach to contemporary dance training, beginning with thorough extensive stretching and strengthening exercises. Attention will be paid to proper posture and alignment, spatial awareness, flexibility, presentation, improvisation, dance quality and focus. Students will develop a beginner level of Modern vocabulary and skills.
Prerequisite: Successful audition

DANCE 111
Introduction to Modern II
3 credits, 16 weeks, 4 hours lab
Further beginner study of the techniques of modern dance. This technique class further concentrates on a multi-disciplinary approach to contemporary dance training, including thorough extensive stretching and strengthening exercises. Continuing attention will be paid to proper posture and alignment, spatial awareness, presentation, as well as flexibility, dance quality and focus. Students will develop an increasing level of Modern vocabulary and skills.

DANCE 210
Modern I
3 credits, 16 weeks, 4 hours lab
Intermediate study of the techniques of modern dance. This technique class concentrates on a multi-disciplinary approach to contemporary dance training, beginning with thorough extensive stretching and strengthening exercises. Attention will be paid to proper posture and alignment, spatial awareness, flexibility, presentation, improvisation, dance quality and focus. Students will develop an intermediate level of Modern vocabulary and skills.
Prerequisite: DANCE 211 or successful audition

DANCE 211
Modern II
3 credits, 16 weeks, 4 hours lab
This techniques class further concentrates on a multi-disciplinary approach to contemporary dance training, beginning with thorough extensive stretching and strengthening exercises. Continuing attention will be paid to proper posture and alignment, spatial awareness, flexibility, presentation, improvisation, dance quality and focus. Students will develop an increasing intermediate level of Modern vocabulary and skills.
Prerequisite: DANCE 210 or successful audition

DRAMA 101
Introduction to Theatre Art
3 credits, 16 weeks, 3 hours lecture
A study of the elements of theatre and the process of theatrical production in today’s theatre. Issues covered include: the origins and development of theatre, the nature and function of theatre, the relationship of theatre to other forms of art, and the exploration of the varieties of theatrical experience. This course requires no previous theatrical experience.

DRAMA 102
Play Analysis
3 credits, 16 weeks, 3 hours lecture
Understanding the nature and elements of drama through the critical analysis of plays and the consideration of creative solutions in their production.
COURSE DESCRIPTIONS

**DRAMA 103**  
Critical Analysis of Playtexts  
3 credits, 16 weeks, 3 hours lecture  
Analysis of playtexts in reference to the specific challenges faced by actors, directors, designers and dramaturges.  
*Note: Not to be taken by students with credit in Drama 102.*

**DRAMA 150**  
Introduction to Acting I  
3 credits, 16 weeks, 6 hours lecture  
Development of the self as the fundamental instrument of the actor; emphasis on imaginative development through improvisation and creative interpretations of text. As an introduction to dramatic form, dramatic improvisation is used.

**DRAMA 151**  
Introduction to Acting II  
3 credits, 16 weeks, 6 hours lecture  
The study of acting including the analysis and enactment of scripted scenes and characterization. Introduction to characterization and script work.  
*Prerequisite: DRAMA 150*

**EA 100**  
Role of the Educational Assistant  
3 credits, 45 hours  
This course focuses on the skills and attitudes essential for paraprofessionals to provide meaningful support to students and teachers in educational environments. The emphasis will be on: development of a personal philosophy of education; understanding of school and board educational philosophies and practices; professional ethics and responsibilities; the teacher/educational assistant team; the educational assistant’s role within a multidisciplinary team, and development of skills to achieve the flexibility necessary for the changing roles of the educational assistant.

**EA 101**  
Child Development I  
3 credits, 45 hours  
The growth and development of the child from the prenatal period through twelve years of age is studied. Physical, emotional and language development will be examined through readings, discussion, projects with children, and observing and recording children's behaviour. Students will begin to develop perspective on the history, and the research and theory of child development.

**EA 102**  
Language and Literacy  
3 credits, 45 hours  
The focus of this course is the patterns of development in language and literacy for children aged 0-8. It also lays the foundation for understanding the developmental base of language/literacy delays apparent in older children. Strategies to support children’s development in both language and literacy are examined and practiced. One emphasis will be on the creative use of developmentally appropriate quality literature to establish a language-rich environment.  
*Prerequisite: EA 101 or ELCC 101*

**EA 104**  
Guiding Children’s Behaviour  
3 credits, 45 hours  
Understanding children’s behaviour and the child-centered problem-solving philosophy is the focus of this course. Students learn and practice communication skills with children, including passive and active listening, affirmations, positive communication of guidelines, negotiation and facilitation of children’s problem solving. Guidance strategies are examined for developmental appropriateness, and applied to both support and modify children’s behaviour. Students will also examine how to respect diverse family values and partner with parents when addressing typical and challenging behaviour.

**EA 105**  
Personal Development & Interaction  
2 credits, 30 hours  
The emphasis in this course will be on the growth of each individual in relation to others. Students will set goals for personal growth by identifying personal values, needs, roles, biases, strengths, and weaknesses. Students will demonstrate self-awareness and increased effectiveness in relationships by practicing appropriate self-disclosure, giving and receiving feedback, and expressive and receptive communication skills. They will identify and assess whether their personal qualities match with the qualities necessary for a childhood professional.

**EA 110**  
Practicum I  
3 credits, 120 hours practicum  
Students have an opportunity to put theory into practice by working with children in community settings including kindergarten and primary grade classes. Students must provide their own transportation to assigned practicum, keep a time sheet, and a daily record of progress in the practicum booklet. Practicum may be repeated or extended when deemed necessary by the Childhood Studies department.  
*Prerequisite or Co-requisite: 3 certificate courses including EA 104  
Co-requisite: EA 125*
EA 116
Health & Safety Issues
1 credit, 15 hours
This course emphasizes the importance of optimal health and safety practices for children and the staff who work with them. One aspect of this course will be the ability to recognize and respond appropriately to many common health issues within inclusive programs.

EA 125
Practicum Seminar I
1 credit, 15 hours
This course provides a forum to support and debrief practicum experiences and explore the integration of theory with practice. The responsibilities and ethical behaviour of childhood professionals will be discussed. Students will be introduced to resource files as a method of organizing professional information and curriculum ideas.
Prerequisite or Co-requisite: 3 first year courses
Co-requisite: EA 110

EA 201
Child Development II
3 credits, 45 hours
The growth and development of the child from infancy through twelve years of age is examined, with the emphasis on social, cognitive and moral development. Keeping portfolio records of children's development and reflecting on case studies will facilitate the application of child development theory to practice.
Prerequisite: EA 101

EA 202
Working with Children with Special Needs
3 credits, 45 hours
This course is designed as a practical overview course so that students may gain or increase their knowledge of the current issues in the field of special needs. Students will have the opportunity to develop an in-depth knowledge of strategies and interventions in the field of special education. We will explore the philosophy and educational concepts associated with inclusion of children with exceptionalities into regular preschool, elementary, junior and senior high school settings.
Prerequisite or Co-requisite: EA 101 or ELCC certificate or permission of the Program Chair

EA 206
Developing Numeracy in the Elementary Classroom
2 credits, 30 hours
Children's developing math concepts and abilities at the pre-math and early math levels will be studied and observed. The emphasis will be the educational assistant's role in observing children's responses to math lessons, and supporting and adapting learning experiences to meet individual learning goals. Awareness of approaches and strategies to remediate math learning will be examined. Access to groups of children is necessary to fulfill the requirements of the course.

EA 210
Practicum II
4 credits, 150 hours practicum
This course allows the students to build on skills learned in Practicum I and to demonstrate increasingly complex communication, guidance and problem solving skills with children. Placements for this practicum will be with mentor teacher/educational assistant teams in middle and upper elementary grades or older.
Prerequisites: EA 110 and EA 125, and 10 certificate courses
Co-requisite: EA 225

EA 211
Reading Support for Emergent Readers
3 credits, 45 hours
Students will gain an understanding in supporting children's literacy development in the areas of auditory processing, language processing, sight vocabulary, reading practice and writing development. Practical strategies for working with a variety of reading remediation programs will also be explored. Access to groups of children is necessary to fulfill the requirements of the course.
Prerequisite: EA 102

EA 212
Exceptionality I: Brain/Cognitive
1 credit, 15 hours
This course will include topics on exceptionalities such as: Fetal Alcohol Syndrome or Effects (FAS/FAE), Attention Deficit and Hyperactivity Disorder (ADHD), Auditory Processing Deficit (APD), developmental delays, and learning disabilities. Knowledge of the exceptionality as well as strategies for working with children diagnosed with the condition will be included.
Prerequisite: EA 202 or ELCC 301

EA 213
Exceptionality II: Physical/Medical
1 credit, 15 hours
Included in this course will be information on sensory impairments (hearing/vision), autism, Tourette syndrome, cerebral palsy, asthma, allergies, and seizure disorders. Knowledge of the exceptionality as well as strategies for working with children diagnosed with the condition will be included.
Prerequisite: EA 202 or ELCC 301

EA 214
Introduction to Communication Disorders
1 credit, 15 hours
Working one-to-one with children to improve their oral expressive skills and articulation is a frequent job requirement for educational assistants. Implementing programs prescribed by speech-language pathologists requires a deep knowledge of language and speech development. Issues and techniques involved in teaching children with communication disorders will be examined.
Prerequisites: EA 102 or ELCC 102 and EA 202 or ELCC 301
COURSE DESCRIPTIONS

EA 216
Exceptionality V: Behavioural Disorders
1 credit, 15 hours
A variety of basic teaching techniques and strategies for work with children with behaviour disorders will be explored.
Prerequisites: EA 104 or ELCC 104 and EA 202 or ELCC 301

EA 217
Adolescents in the Classroom
1 credit, 15 hours
This course will enable the student to develop a greater knowledge of the unique needs of adolescents by examining adolescent development. It will provide the educational assistant with a repertoire of strategies and interventions to effectively support adolescents and their junior/senior high teachers. The goal will be to meet the academic, social and behavioural needs of the adolescent.
Prerequisite: EA 202 or ELCC 301

EA 222
Specialized Training in Exceptionalities
1 credit, 15 hours seminar
This course enables students to develop the skills and understanding required to assist children with specific special education needs. The focus of the course will vary from term to term depending on community need. Students may apply for prior learning or advanced credit for previous relevant training after consultation with the department chair.

EA 223
Working with EAL Children
1 credit, 15 hours seminar
This course will enable the student to develop greater knowledge of the unique needs of EAL children. It will provide the educational assistant with ideas and strategies about how to assist EAL children with speaking, reading, writing English, as well as, activities for listening to English in a meaningful way.

EA 224
Working with Children with Autism Spectrum Disorders
1 credit, 15 hours seminar
This course will enable the student to develop the understanding and skills required to effectively support children with Autism Spectrum Disorders (ADS). It emphasizes best practices in social skills development, behaviour management, sensory integration therapy and communication systems for assisting children with ASD in inclusive programs.
Prerequisite: EA 202 or ELCC 301

EA 225
Practicum Seminar II
1 credit, 15 hours
This course provides a weekly forum to support and debrief practicum experiences and explore the integration of theory with practice. Students will practice applying knowledge of the role of the educational assistant and guidance skills to real-life situations.
Prerequisites: EA 110 and EA 125
Co-requisite: EA 210

EA 226
School Aged Care
1 credit, 15 hours
This course will provide a brief overview of developmentally appropriate programs for children aged five to twelve outside of their formal school days. We will examine developmental milestones of school-age children, the roles their caregivers play to support their development, optimum school-age care environments, building community, and developmentally appropriate curriculum in school-age care settings.

EA 227
Learning Through Play for School Aged Children
1 credit, 15 hours
This course introduces the nature value and development of play in the lives of school-aged children. We will examine how the adult becomes involved in and supports children’s play in school classrooms, on the playground and in out-of-school care programs. Practice will be gained observing, supporting and extending play and learning. Documentation of school-aged play and learning will be practiced. Regardless of their previous formal experience with a learning through play philosophy, students will experience new and innovative ways of understanding play in children’s lives.

EA 314
Working with Communication Disorders
1 credit, 15 hours
Working one-on-one with children to improve their communication skills is a frequent job requirement for Educational Assistants. Educational Assistants are required to understand a variety of treatment approaches for various communication disorders to appropriately implement programs developed by a Speech-Language Pathologist. Issues and techniques involved in teaching children with communication disorders will be discussed.
Prerequisite: EA 214
EAS 100
Planet Earth
3 credits, 16 weeks, 3 hours lecture, 3 hours lab

EAS 105
The Dynamic Earth Through Time
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
The plate tectonic framework of a dynamic Earth as it relates to the origin of major groups of minerals and rocks. Earthquakes, structural geology, and the origin of mountain belts. Surface processes and their sedimentary products. History of life and extinctions.
Prerequisite: EAS 100 or 102
Note: Not available to students with credit in EAS 101.

EAS 208
Introduction to Global Change
3 credits, 16 weeks, 3 hours lecture
To study the natural and anthropogenic causes of global scale environmental change: the role of the atmosphere, oceans, biosphere and cryosphere in the process of environmental change; relationships between levels of technology and development, and the character of environmental change associated with human activity.
Prerequisite: Any 100-level Science course

ECON 101
Introduction to Micro-Economics
3 credits, 16 weeks, 3 hours lecture
Analysis of economic problems, analysis of the market economy with emphasis on the Canadian economic system, the role of the consumer, private industry and government in competitive and monopolistic markets, collective bargaining and determination of wages.

ECON 102
Introduction to Macro-Economics
3 credits, 16 weeks, 3 hours lecture
This course provides a basic understanding of the macro economy with emphasis on Canadian problems and policies. The topics are national income theory, monetary theory, and fiscal policies and international trade theory.
Prerequisite: ECON 101 or permission of the Program Chair

ECON 341
Money and Banking
3 credits, 16 weeks, 3 hours lecture
This course will primarily focus on the supply of money and elementary issues of monetary control. Topics will include the analysis of money and credit in the exchange process, financial intermediaries, commercial banking and central banking.
Prerequisite: ECON 101 and ECON 102

EDPRA 250
Orientation to Teaching
3 credits, 16 weeks, 3 hours lecture, 60 hours practicum
This course is made up of two different but integrated components. The course content focuses on the various roles teachers have to perform while the practicum portion gives students the opportunity to observe and participate in the life of classrooms and work in a limited way with students at different levels. This course will include 60 hours of practicum.
Note: The grading system for this course is Pass/Fail.

EDU 100
Contexts of Education
3 credits, 16 weeks, 3 hour lectures
This course focuses on the different contexts of professional practice with education. It critically examines the complex social relationships among educators as professionals and learners as participants in educational institutions.
Note: Credit cannot be received for both EDU 100 and EDFX 200 or equivalent.

EDU 210
Introduction of Educational Technology
3 credits, 16 weeks, 3 hour lectures, 3 hours lab
This course examines frameworks, trends, issues, and futuristic scenarios on the role of technology in education. Students will gain hands-on experience of using technology, with a special emphasis on strategies for integrating technology in the school curriculum.
Note: Students may not receive credit for both EDU 210 and EDIT 202.
Prerequisite: EDU 100

EDU 211
Aboriginal Education and the Context for Professional Engagement
3 credits, 16 weeks, 3 hour lectures
In this course, pre service teachers will continue to develop knowledge of Aboriginal peoples' histories, educational experiences, and knowledge systems, ways of knowing and being, and will further develop an understanding of the implications of this knowledge to the professional roles and obligations for teachers. Pre service teachers will engage in a learning process of self-and-other awareness, and will be supported by Aboriginal educators, Faculty members and Elders.
Prerequisite: EDU 100
COURSE DESCRIPTIONS

ELCC 101
Child Development I
3 credits, 45 hours
The growth and development of the child from the prenatal period through eight years of age is studied. Physical, emotional, and language development will be examined through readings, discussion, projects with children, and observing and recording children's behaviour. Students will begin to develop perspective on the history, and the research and theory of child development.

ELCC 102
Language and Literacy in Early Childhood
3 credits, 45 hours
The focus of this course is the patterns of development in language and literacy for children aged 0-8. It also lays the foundation for understanding the developmental base of language/literacy delays apparent in older children. Strategies to support children's development in both language and literacy are examined and practiced. One emphasis will be on the creative use of developmentally appropriate quality literature to establish a language-rich environment.
Prerequisite: ELCC 101 or EA 101

ELCC 104
Guiding Children's Behaviour
3 credits, 45 hours
Understanding the child-centered problem-solving philosophy is the focus of this course. Students learn and practice communication skills with children, including passive and active listening, affirmations, positive communication of guidelines, negotiation and facilitation of children's problem solving. Guidance strategies are examined for developmental appropriateness, and applied to both support and modify children's behaviour. Students will also examine how to respect diverse family values and partner with parents when addressing typical and challenging behaviour.

ELCC 105
Personal Development and Interaction
2 credits, 30 hours
The emphasis in this course will be on the growth of each individual in relation to others. Students will set goals for personal growth by identifying personal values, needs, roles, biases, strengths, and weaknesses. Students will demonstrate self-awareness and increased effectiveness in relationships by practicing appropriate self-disclosure, giving and receiving feedback, and expressive and receptive communication skills. They will identify and assess whether their personal qualities match with the professional qualities necessary for the early childhood profession.

ELCC 106
Learning Through Play
3 credits, 45 hours
This course introduces the student to the nature, value, and development of play in the lives of children. How adults become involved in and provide for children's play is emphasized. Students will gain experience observing, supporting, and extending play and learning. Access to groups of young children is necessary to fulfill the course requirements.

ELCC 110
Practicum I
4 credits, 165 hours practicum
Students have an opportunity to put theory into practice by working with children in the Keyano preschool and community settings including daycare, preschool and kindergarten classes. Students must provide their own transportation to assigned Practicum, keep time sheets, and a daily record of progression in the Practicum booklet. Practicum may be repeated or extended when deemed necessary by the ELCC department.
Prerequisite or Co-requisite: ELCC 125 and 3 first year courses including ELCC 104

ELCC 116
Nutrition, Health & Safety
2 credits, 30 hours
This course emphasizes the importance of optimal nutrition, health and safety practices for young children and the staff who work with them in early childhood settings. Alberta's child abuse protocol will be covered.

ELCC 123
Creative Experiences for Young Children
3 credits, 45 hours
Understanding and appreciation of children's creativity and creative expression will be gained through observing children, and studying the developmental patterns in art, music, and movement. Students will learn how to select, adapt, create, and implement resources in developmentally appropriate ways. Students will be challenged to further their own comfort and skills in both supporting and extending children's creative expression.

ELCC 125
Practicum Seminar I
1 credit, 15 hours
This course provides a weekly forum to support and debrief practicum experiences and explore the integration of theory with practice. The types of early childhood programs, the legislation governing those programs and the responsibilities and ethical behaviour of early childhood professionals will be discussed. Students will be introduced to resource files as a method of organizing professional information and curriculum ideas.
Co-requisite: ELCC 110
ELCC 201
Child Development II
3 credits, 45 hours
The growth and development of the child from infancy through eight years of age is examined, with the emphasis on social, cognitive, and moral development. Keeping portfolio records of children's development and reflecting on case studies will facilitate the application of child development theory to practice.
Prerequisite: ELCC 101

ELCC 206
Planning for Play
3 credits, 45 hours
Implementing a child-centered play-based program is the focus of this course. Students will learn and practice using observations of children's play interests and abilities as a basis for planning. Methods of extending play and learning will be examined, including developmentally appropriate group experiences such as whole group time, field trips, and community guests. An understanding of the math and science learning that children demonstrate in their play and how to plan curriculum to enhance this learning will be covered. Access to groups of young children is necessary to fulfill the planning requirements of the course.
Prerequisite: ELCC 106

ELCC 210
Practicum II
5 credits, 210 hours practicum
This course allows the students to build on skills learned in Practicum I and to demonstrate increasingly complex communication, guidance and problem solving skills with children. The student will demonstrate good planning and implementation of a developmentally appropriate program.
Prerequisite: ELCC 110 and ELCC 125
Co-requisite: ELCC 225 and 6 certificate courses

ELCC 225
Practicum Seminar II
1 credit, 15 hours
This course provides a weekly forum to support and debrief practicum experiences and explore the integration of theory with practice. The Early Childhood Environment Rating Scale (ECERS), used by the Alberta Day Care Office to assess program quality, will be examined.
Prerequisite: ELCC 110 and ELCC 125
Co-requisite: ELCC 210

ELCC 300
Foundations: Issues and Ethics
2 credits, 30 hours
An exploration of the issues and ethical problems that face caregivers in the field of Early Childhood with reference to historical and philosophical influences. Skills for responsible action in resolving ethical dilemmas will be studied. Formulation of a personal philosophy of working with young children is also a focus of this course.
Prerequisite: ELCC Certificate or permission of the Program Chair

ELCC 301
Exceptional Child
3 credits, 45 hours
This practical course is designed so that students may increase their knowledge of the current issues in the field of special needs. We will explore strategies that are currently in practice for the integration of children with exceptionalities into regular preschool and primary settings.
Prerequisite: ELCC Certificate or permission of the Program Chair

ELCC 302
Environments
2 credits, 30 hours
An examination of the power of the environment in influencing children's behaviour and learning. Students will explore ways of using space and materials creatively in their own centres, to make children's individual and group play experiences developmentally appropriate. The impact of environment on the programming of learning experiences, with reference to Berekamp's Developmentally Appropriate Practices, will be a key issue. Students must demonstrate the principles of the course in the settings they provide for children.
Prerequisite: ELCC Certificate or permission of the Program Chair

ELCC 303
Child and Family
2 credits, 30 hours
This course is designed to increase the students' understanding of family dynamics and family diversity. The challenges to, and supports for, family participation in early childhood programs are examined. A collaborative approach to family-staff communication and involvement will be applied to each student's unique work situation.
Prerequisite: ELCC Certificate or permission of the Program Chair
ELCC 304
Ecology of the Family
2 credits, 30 hours
This course provides an overview of the family in today’s society. Focus is on the ecology of the modern family with particular reference to poverty, affluence, violence, the women’s movement, the children’s rights movement and the relationship of the family and world of work.
Prerequisite: ELCC Certificate or permission of the Program Chair

ELCC 305
Interpersonal Relationships
2 credits, 30 hours
The emphasis of this course is on expanding students’ awareness of self and continuing to build effective communication skills, including attentive and reflective listening, giving and receiving feedback, assertiveness techniques and problem solving skills. Additional focus will be on developing skills to build and maintain relationships with others.
Prerequisite: ELCC 105 or EA 105 or permission of the Program Chair

ELCC 306
Group & Team Dynamics
2 credits, 30 hours
The emphasis of this course is twofold. The students will understand and implement the NAEYC Code of Ethical Conduct. Additionally, the students will develop their team performances and gain a stronger understanding of team concept, group and team dynamics and the various roles that exist within teams.
Prerequisite: ELCC 105 or EA 105 or permission of the Program Chair

ELCC 307
Program Integration
2 credits, 30 hours
This course is designed to enable students to increase their understanding of child-centered developmentally appropriate programming. Methods of curriculum planning and record keeping will be examined, with an emphasis on play-based emergent curriculum. Current topics and issues, related to early childhood curriculum, will be addressed. Being able to fulfill planning assignments in a program setting is required.
Prerequisite: ELCC Certificate or permission of the Program Chair

ELCC 308
Curriculum for Diversity
2 credits, 30 hours
This programming course emphasizes the importance of providing curriculum that is sensitive to the range of cultures found within our community today. Students are encouraged to recognize their own cultural biases, critically examine their program for evidence of cultural inclusion or exclusion, and develop strategies to promote cultural sensitivity. Students will be involved in an action project to implement change in practice.
Prerequisite: ELCC certificate or permission of the Program Chair

ELCC 309
Understanding Children’s Behaviour
2 credits, 30 hours
Participants in this course will examine behaviours of children that practitioners find most challenging including anger and aggression, non-compliance, high sensitivity, attention problems, and bullying. Effects of the physical and interactional environment on behaviour will be studied. It is assumed that participants already demonstrate a working knowledge of developmentally appropriate responses to typical behaviours of young children in group situations.
Prerequisite: ELCC certificate or permission of the Program Chair

ELCC 320
Practicum III - Part I
2 credits, 80 hours practicum
This course is designed to help students translate early childhood theory into developmentally appropriate practice with children. The ability to self-reflect on one’s practice through writing and discussion is emphasized.
Prerequisite or Co-requisites: 2 second year courses

ELCC 321
Practicum III - Part II
3 credits, 120 hours practicum
A continuation of Practicum III.
Prerequisite or Co-requisite: ELCC 320 and 4 second year courses

ELCC 322
Practicum IV - Part I
2 credits, 80 hours practicum
Continued enhancement in translating theory to practice with children. Individual contracts are developed to ensure the student’s needs and interests are met.
Prerequisite or Co-requisites: ELCC 321 and 6 second year courses

ELCC 323
Practicum IV - Part II
3 credits, 120 hours practicum
Students will complete the final objectives of the practicum focusing on those issues which pertain to their individual practice with children.
Prerequisite or Co-requisite: ELCC 322 and 8 second year courses
ELCCA 100
Introduction to Child Care
3 credits, 45 hours
ELCCA 100 is an introduction to a child-centered approach to working with young children. A main focus is the roles and responsibilities essential to ensuring quality care for young children, including a positive approach to guiding behaviour. Provincial standards of care will be reviewed. Students will also develop understanding of the relationship between play and child development, and how to observe and facilitate learning through play.
Prerequisite: Grade 10 or equivalent

EMTA 400
Integrated Theory
6 credit, 128 hours
This course provides the theory needed for an Emergency Medical Technician. Students integrate theory in the areas of communications, legal & ethical issues, anatomy & physiology in order to prepare them for the primary care they will provide as EMTs.
Co-requisite: EMTA 406 and EMTA 407

EMTA 406
Recreation Program – Fitness
1 credit, 60 hours
This course deals with the principles of personal fitness, awareness of your present fitness level and provides guidelines for establishing a personal fitness program.
Co-requisite: EMTA 400

EMTA 407
Practical Course
3 credits, 150 hours
This course will cover the practical applications of skills required of an EMT. In this course, students will demonstrate skills in a laboratory setting. There is an additional 16 hours for the ITLS course.
Co-requisite: EMTA 400

EMTA 408
Ambulance Practicum
4 credits, 240 hours
The ambulance and hospital practicums are designed to ensure the student is capable of applying the theoretical knowledge gained over the previous few months and apply it to actual patient care. The ambulance portion of the program allows the student to experience a wide variety of medical and traumatic conditions.
Co-requisites: EMTA 400, EMTA 406 and EMTA 407

EMTA 409
Hospital Practicum
1 credit, 36 hours
Keyano College values quality education. For prehospital professions, a critical component of this quality is the clinical experience. The clinical placement allows students, under the guidance of an experienced professional, to apply the skills they have learned. This mentoring process allows the student to safely develop confidence and competence with their new skills and knowledge by both observation of skilled professionals, and application of their skills in a supervised environment.
Co-requisites: EMTA 400, EMTA 406 and EMTA 407

EMTP 501
Anatomy and Physiology
3 credits, 45 hours
This course is a study of the fundamentals of human body structure and function with emphasis on those systems of particular importance to the training of paramedics. It will build upon the previous education the students have had in this area.

EMTP 502
Pathophysiology
6 credits, 96 hours
Pathophysiology is the study of the biologic basis of disease. It is a required course for diagnosis-based treatment in prehospital care.

EMTP 503
Prehospital Skills
3 credits, 60 hours
The Prehospital Skills course focuses on simulated learning experiences where the student relates knowledge and values of Paramedicine while practicing the common Skills of the Advanced Life Support provider. The student will demonstrate mastery of a Basic Life Support (BLS) Assessment Survey and apply new Advanced Life Support (ALS) skills to scenario situations. The student will complete independent study before practicing or demonstrating the skills in the laboratory environment.

EMTP 504
Aeromedical
6 credits, 138 hours
This course will familiarize the student with the special aspects of patient care associated with air transport and survival. There will be a focus placed on understanding how altitude and pressure affect human physiology, as well as, the treatment variables associated with high altitude transport.
COURSE DESCRIPTIONS

EMTP 505
Pharmacology
3 credits, 45 hours
This is an introductory course that deals with the pharmacokinetics and pharmacodynamics of drugs used in pre-hospital care. It focuses on drugs used for medical conditions, a drug’s class, description, mechanism of action, indications, contraindications, precautions, side effects, interactions, dosage, and dosage forms.

EMTP 506
Obstetrics
3 credits, 45 hours
The focus of this course will be on complications related to obstetrics.

EMTP 507
Physical Examination
3 credits, 45 hours
This Physical Examination Course is designed to help practitioners learn the intricate functions of the human body. It will teach the practitioner to perform physical examinations when working with patients who are in different states of physical, mental, and emotional health.

EMTP 508
Advanced Pharmacology
3 credits, 45 hours
The Advanced Pharmacology course and principles of Prehospital teach paramedic students advanced concepts and principles of Prehospital drug administration.

EMTP 509
Intermediate Ambulance Practicum
6 credits, 432 hours
The Intermediate Ambulance Course gives the student the opportunity to practice new skills in the Prehospital clinical setting. This course is the first of three practicums experiences the student will participate in, where the application of the theoretical knowledge and skills are practiced on “real” patients. This course will expose the student to a variety of patients in a variety of “uncontrolled” prehospital situations.

EMTP 510
Paramedic Projects
3 credits, 45 hours
The Paramedic Projects course will introduce the student to the importance of tracking personal and professional experiences and relating them to career and educational goals. The learner will also research and discuss medical legal issues, which relate to current clinical practice.

EMTP 511
Emergency Diagnosis and Treatment
6 credits, 96 hours
This course deals with the diagnosis and treatment of both medical and trauma emergencies at the paramedic level. This diagnosis is obtained in combination with physical exam, symptoms, history, and diagnostic tests done in the field.

EMTP 512
Hospital Practicum
6 credits, 445 hours
This hospital course applies experiential learning concepts, within the controlled setting of a health care facility. Students will apply theoretical knowledge when completing research, patient assessment and competency practice assignments.

EMTP 513
Advanced Life Support
3 credits, 64 hours
This 3-credit course consists of value-added-courses currently recognized as Standards within the prehospital industry. The short courses taught within this course include Advanced Cardiac Life Support, Pediatric Life Support, Basic Trauma Life Support, Advanced and Neonatal Advanced Life Support.

EMTP 514
Advanced Skills
3 credits, 45 hours
In the Advanced Paramedic Skill course, students will focus in relating knowledge and performance to skills not often practiced by paramedics in the prehospital setting.

EMTP 515
Final Ambulance Practicum
6 credits, 480 hours
The Final Ambulance Course gives the student the opportunity to practice all skills of a Paramedic in the prehospital clinical setting. This course is the last of three practicums experiences the student will participate in, where the application of the theoretical knowledge and skills are practiced on “real” patients. This course will expose the student to a variety of “uncontrolled” prehospital situations, where they have an increased responsibility to provide care. The student will practice under the supervision of a clinical preceptor to ensure advanced life support (ALS) concepts are appropriately incorporated into patient care.
ENCMP 100
Computer Programming for Engineers
3 credits, 16 weeks, 3 hours lecture, 1.5 hours lab
3.8 Engineering units for the University of Alberta
This course is an introduction to the C++ programming with applications to engineering problems. Topics to be covered include language structure and syntax, procedural abstraction with functions, selection and repetition structures, one dimensional arrays and file manipulation. This course is an introduction to structured procedural programming, gradually leading to object-oriented programming concepts. Modularity at the functional and file level is stressed. At the end of the course students will be expected to have a “library” of tested and properly documented C++ functions. Weekly laboratories offer students the opportunity to translate concepts presented in lectures into interesting application programs.
Note: ENCMP 100 is restricted to Engineering students.

ENCS 201
Wildlife Biodiversity and Ecology
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Introduction to animals in the context of conservation, interactions with people and roles in natural ecosystems. Labs provide a survey of North American animal life, both vertebrate and invertebrate with emphasis on recognition of higher taxa and on hierarchical classification. Field trips required.

ENCS 260
History and Fundamentals of Environmental Protection and Conservation
3 credits, 16 weeks, 3 hours lecture
This course provides students with a philosophical and sociological exploration of historical and contemporary perspectives on human-environmental relationships and their implications. Students explore these perspectives in a framework of critical thinking and through case studies.

ENGG 102
Introduction to the Engineering Profession
2 credits, 16 weeks, 2 hours lab
2.0 Engineering units for the University of Alberta
This course is an introduction to the engineering profession. Students will attend seminars presented by professional engineers of various disciplines. Students may also examine: engineering disciplines; co-operative education; study skills; career fields and work opportunities; history and development of the profession; professional responsibilities; ethics; and engineering and society. A survey of graphical communication methods and an introduction to the design process used by engineers may be included.
Note: ENGG 102 is restricted to Engineering students.

ENGG 130
Engineering Mechanics I
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
4.0 Engineering units for the University of Alberta
This course focuses on static equilibrium of forces, principles of two and three dimensional equilibrium, analysis of statically determined structures -trusses and frames, and principles of friction and virtual work.
Prerequisite: Math 30-1, Math 31 and Physics 30
Co-requisite: MATH 100
Note: ENGG 130 is restricted to Engineering students.

ENGG 210
Engineering Graphics
3 credits, 16 weeks, 2 hours lecture, 3 hours lab
3.5 Engineering units for the University of Alberta
This course includes sketching, drafting and interpretation of pictorials and multi-views of three-dimensional objects; visual design; and an introduction to scales, sectioning and dimensioning. AUTOCAD software is used for the computer-aided drafting (CAD) portion of the course.
Note: ENGG 210 is restricted to Engineering students.
ENGG 210 transfers as a required course for Mechanical and Mining and Civil Engineering at University of Alberta.

ENGL 010
English 010
5 credits, 16 weeks, 5 hours lecture
This is a language skills course emphasizing remedial grammar, paragraph writing, the basic terminology used to analyse literature, and the study of various forms of literature.
Alberta Education Course Equivalency: English 10 (10-1)
Prerequisite: AFL 009 with a minimum grade of B or equivalent or permission from the Program Chair

ENGL 013
English 013
5 credits, 16 weeks, 5 hours lecture
English013 focuses on the development of communication skills. The emphasis is on the development of vocabulary, spelling ability, reading skills, verbal expression, and good fundamental writing skills in order to better equip the student for everyday life.
Alberta Education Course Equivalency: English 13 (10-2)
Prerequisite: AFL 009 or equivalent or permission from the Program Chair
ENGL 020
English 020
5 credits, 16 weeks, 5 hours lecture
This course is a continuation of English 010. It includes instruction in composition and remedial grammar, together with the study of selected short stories, novels, drama and poetry.
Alberta Education Course Equivalency: English 20 (20-1)
Prerequisite: ENGL 010 or equivalent or permission from the Program Chair

ENGL 023
English 023
5 credits, 16 weeks, 5 hours lecture
English 023 continues the format of English 013. The course offers instruction in various forms of communication (both oral and written). The emphasis in the course is to further develop those skills, such as vocabulary, spelling, reading, comprehension, grammar, and writing, encouraged in English 013.
Alberta Education Course Equivalency: English 23 (20-2)
Prerequisite: ENGL 013 or ENGL 010 or equivalent or permission from the Program Chair

ENGL 030
English 030
5 credits, 16 weeks, 6 hours lecture
This course completes the 010, 020, 030 sequence and prepares students for post-secondary university study in English. It includes the study of composition and all major literary forms: poetry, essay, short story, novel, Shakespearean and modern drama. A substantial writing component is included.
Alberta Education Course Equivalency: English 30 (30-1)
Prerequisite: ENGL 020 or equivalent or permission from the Program Chair

ENGL 033
English 033
5 credits, 16 weeks, 5 hours lecture
English 033 completes the English 013, 023, 033 sequence. The course is designed to further develop the comprehension, writing, and vocabulary skills of the student. Basic grammar and writing skills will be reviewed and utilised in practical writing exercises.
Alberta Education Course Equivalency: English 33 (30-2)
Prerequisite: ENGL 023 or ENGL 020 or equivalent or permission from the Program Chair

ENGL 100
Written Composition
3 credits, 45 hours lecture
This course focuses on expository writing skills. Students will develop and organize their thoughts as they study examples of good prose and practice revising their own work. By following the steps of the writing process, students will learn to write clear, well-structured, interesting essays. Course requirements include writing essays, a summary, a report and a research paper.

ENGL 108
Introduction to Language and Literature
3 credits, 16 weeks, 3 hours lecture
This course combines formal instruction in writing with a study of the essay and the short story. One-half of class time will be devoted to writing instruction. This course may be followed only by English 109.
Prerequisite: English 30 or English 30-1
Note: Not to be taken by students in Arts and Education.

ENGL 114
Aboriginal Literature and Culture
6 credits, 32 weeks, 3 hours lecture
This course will focus on readings in Aboriginal literature, culture and history. Students will examine both oral and written traditions of literature. They will consider texts and contexts dealing with values, identity, comparative indignities and with the relationships between Aboriginal and non-Aboriginal cultures. Instruction in writing skills will form a major component of the course. Composition will be taught formally, through the student preparation of written and submitted essays, and through a study of literary examples. This course will satisfy all faculties’ requirements of a first-year English credit.
Prerequisite: English 30
ENGL 121  
**Literature in Historical Perspective**  
3 credits, 16 weeks, 3 hours lecture  
This course introduces students to post-secondary studies in English by exploring developments in language, literature, and culture in and over time. Students will have opportunities to study particular themes and compare different genres in and across a broad array of texts, placed in their historical contexts, which may range from medieval to contemporary times. The course will examine the conditions under which texts were originally produced and may consider the reception and reshaping of texts in history to the present. This course will satisfy all faculties’ requirements of a first-year English credit.  
**Prerequisite:** English 30 or 30-1 or equivalent  
**Note:** Not to be taken by students with 6 credits in approved junior English.

ENGL 122  
**Texts and Contexts**  
3 credits, 16 weeks, 3 hours lecture  
This course introduces students to post-secondary studies in English by focusing on a specific literary theme (to be determined by the instructor) in a cluster of related texts. Students may expect to encounter fiction, poetry, drama, and non-fictional prose, as well as visual media. The course will enable students to explore a particular subject in-depth as well as a broad range of materials and to acquire a rich sense of contexts or intellectual landscapes that give shape to the study of literature and culture. A minimum of 30% of class time will be devoted to writing instruction. This can take many forms, including graded written assignments, informal writing exercises, writing workshops, free-writing exercises, stylistic analysis, research skills, peer editing, multiple drafts, and ungraded writing. Students will be required to write at least two essays which will be marked and formally graded. During the course, students will write at least 3000 words.  
**Prerequisite:** English 30 or 30-1 or equivalent  
**Note:** Not to be taken by students with 6 credits in approved junior English.

ENGL 124  
**Literary Analysis**  
3 credits, 16 weeks, 3 hours lecture  
This course introduces students to post-secondary studies in English by developing skills in the close reading of language, genre, narrative, and poetic form. Rather than focusing on historical or cultural contexts (although these may come into play), this course concentrates on literary forms and structures, and on developing a critical vocabulary for literary analysis. Students can expect to encounter a variety of shorter genres in the literary tradition (the short story, poems, and essays) as well as film and other visual media.  
**Prerequisite:** English 30 or 30-1 or equivalent  
**Note:** Not to be taken by students with 6 credits in approved junior English.

ENGL 125  
**Aboriginal Writing**  
3 credits, 16 weeks, 3 hours lecture  
This course introduces students to post-secondary studies in English through works by Aboriginal writers. It will address aesthetics, concepts, approaches, and debates that inform the production and study of Aboriginal literatures. It will analyze the roles literature plays in shaping and reflecting Aboriginal identities, communities, and histories. The course will examine several genres that can include traditional stories, fiction, poetry, drama, history, autobiography, essays, and speeches. Materials, themes, topics, and genres will vary among instructors. A minimum of 30% of class time will be devoted to writing instruction. This can take many forms, including graded written assignments, informal writing exercises, writing workshops, free-writing exercises, stylistic analysis, research skills, peer editing, multiple drafts, and ungraded writing. Students will be required to write at least two essays which will be marked and formally graded. During the course, students will write at least 3000 words.  
**Prerequisite:** English 30 or 30-1 or equivalent  
**Note:** Not to be taken by students with 6 credits in approved junior English.

ENGL 199  
**Essentials of Writing for Engineering Students**  
3 credits, 16 weeks, 3 hours lecture  
A compulsory first-year course for engineering students only. This course is designed to develop the student’s ability to write the narrative, descriptive, expository, and persuasive prose fundamental to all written communication. Instruction and practice will be integrated with the study of prose models drawn from modern essayists. A review of basic grammar will be included.  
**Prerequisite:** English 30 or English 30-1  
**Note:** ENGL 199 is restricted to Engineering students.

ENGL 206  
**The Short Story**  
3 credits, 16 weeks, 3 hours lecture  
This course provides an introduction to the short story by tracing the development of the genre and critically analyzing a substantial number of short stories. The emphasis will be upon a detailed examination of short stories by acknowledged masters of the form: Poe, Hawthorne, Maupassant, Chekhov, James, Joyce and others.  
**Prerequisite:** 6 credits of junior English

ENGL 208  
**Reading Histories: Making Books**  
3 credits, 16 weeks, 3 hours lecture  
An introduction to the social and cultural history of print text, and to the critical concepts and methods key to its study, that emphasizes the relationship between the production of books and the production of culture.  
**Prerequisite:** 6 credits of junior English
ENGL 221
Reading Politics: Class and Ideology
3 credits, 16 weeks, 3 hours lecture
English 221 will examine ideas of class as expressed in texts of the nineteenth and early twentieth centuries. At a time when class distinctions determined and restricted virtually every aspect of daily life, writers reflected, reinforced, and also undermined those distinctions in their work. We will use critical tools of late twentieth-century writings on class and ideology to explore the earlier texts, with a view to understanding cultural representations of class and class relations. What does it mean to “belong” to a particular class? How did one’s “station in life” control one’s fate? How is literature itself a product of class? Karl Marx pointed out, “The ideas of the ruling class are in every epoch the ruling ideas,” and this course will investigate how those ruling ideas were conveyed.
Prerequisite: 6 credits of junior English

ENGL 224
The Literary Institution
3 credits, 16 weeks, 3 hours lecture
This course analyzes the object of English Studies itself. It considers the developmental history of English as a university course and what is involved in the process of separating all writing into the specific category of Literature. It deals with the formation of a literary canon and the various interpretive strategies which either determine that canon or may be applied to it. Students will read literary theory by scholars such as Terry Eagleton, Paulo Freire, Louis Menand, Robert Scholes, Edward W. Said, Harold Bloom, Roland Barthes, Stanley Fish, Wayne C. Booth, Sandra M. Gilbert and Susan Gubar and others. They will apply theory to case studies in imaginative literature.
Prerequisite: 6 credits of junior English

ENGL 237
Hope and Despair in Young Adult Literature
3 credits, 16 weeks, 3 hours lecture
While darkness is prevalent in children’s literature, hope is its essence. How, then, do we enable children to delve into the dark places, to grapple with the reality of the human condition, and yet resurface into the light? English 237 will explore how, historically, children’s literature has dealt with social ills and the concept of the ‘child,’ and examine human psychological development and issues surrounding censorship. We will focus on literature that walks the fine line between hope and despair, ranging from classic folk and fairy tales to the young adult novels that emerged in the latter half of the twentieth-century.
Prerequisite: 6 credits of junior English

ENGL 239
Shakespeare
3 credits, 16 weeks, 3 hours lecture
This course introduces students to the broad range of Shakespearean Drama, with selections from the tragedies, comedies, histories and romances. It involves a close analytical reading of eight or more plays, and a consideration of several critical approaches to the Shakespearean canon. The selections will include the more generally acclaimed plays, such as Hamlet and Henry V, and the less well-known works, such as Coriolanus and The Winter’s Tale.
Prerequisite: 6 credits of junior English

ENGL 277
Poetry and Prose of World War I
3 credits, 16 weeks, 3 hours lecture
The course will explain why World War I is a watershed event in literary history: it accelerates the advent, and provides the metaphor, of modernism. Students will deal with the theoretical concepts of romanticism and modernism, realism and naturalism. They will learn why the central trope for warfare is irony. The focus will be on a variety of prose and verse texts, which combine historicity and literary merit: poetry for the immediacy of the experience and prose narratives for the reflective and distancing process of retrospection. Works selected will be primarily by British authors.
Prerequisite: 6 credits of junior English

ENGL 288
Folklore in Children’s Literature in English
3 credits, 16 weeks, 3 hours lecture
This three-credit senior English course will examine folklore and fantasy in children’s literature. It will examine both traditional, anonymous works, including nursery rhymes, fables, folktales and myths, and modern works incorporating traditional materials. Students will be expected to write essays totalling about 2,000 words.
Prerequisite: 6 credits of junior English

ENGL 289
Children’s Literature in English
3 credits, 16 weeks, 3 hours lecture
This three-credit senior English course will trace the history of children’s literature and explore its evolution from didacticism to delight. A survey of its rich variety will include analysis of animal stories, literary fantasy, adventure and realism. Through the study of classic and contemporary works, students will develop an understanding of literary theory and criticism. Students will be expected to write two essays totalling about 2,000 words.
Prerequisite: 6 credits of junior English
ENGL 294
Introduction to Writing Poetry
3 credits, 16 weeks, 3 hours lecture
This course will be conducted as a seminar, using contemporary poems and the students’ own work for study and discussion. Students will be expected to read widely, write extensively, and complete a portfolio of finished poetry by the end of the term. In addition, students will keep a writing journal and will complete specific in-class and out-of-class assignments exploring poetic form, style, and technique.
Prerequisite: 6 credits of junior English

ENGL 325
The Arthurian Tradition in Literature
3 credits, 16 weeks, 3 hours lecture
This three-credit senior English course will explore the origins, development and significance of the King Arthur legends in English literature. The “Matter of Britain”, with its archetypal evocations of questing, heroism and betrayal, has been woven into the fabric of English literature for over six hundred years. This course will examine how the material has been reinterpreted by succeeding generations while still retaining its mythic power.
Prerequisite: 6 credits of junior English

ENGL 358
American Literature to 1900
6 credits, 32 weeks, 3 hours lecture
This course examines the fiction, non-fiction and poetry of American writing prior to this century. The various schools and movements of American Literary history are examined, but the major emphasis will be placed on authors constituting the “American Renaissance” circa 1850. The progression of the course is chronological, and an historical perspective will be maintained.
Prerequisite: 6 credits of junior English

ENGL 360
The Early Twentieth-Century American Novel
3 credits, 16 weeks, 3 hours lecture
This course examines the development of the American Novel circa 1900-1940, concentrating on Henry James, Ernest Hemingway and William Faulkner. Additional works will be selected from the novels of such authors as Theodore Dreiser, Edith Wharton and F. Scott Fitzgerald. The novels will be viewed analytically to determine the American contribution to the form and function of the novel in this century.
Prerequisite: 6 credits of junior English

ENGL 365
The Early Twentieth-Century British Novel
3 credits, 16 weeks, 3 hours lecture
This course critically examines a selection of the best British novels of the first half of the twentieth century. It is a period in which traditional and historical conceptions of the form, content, and purpose of the novel underwent an intense and radical re-examination. This course introduces students to both the experimental and the more traditional works of the period, and will consider the work of Joyce, Lawrence, Woolf, and others.
Prerequisite: 6 credits of junior English

ENGL 368
Early Twentieth-Century Drama
3 credits, 16 weeks, 3 hours lecture
This course offers an introduction to the study of modern drama and its forms in the British and American tradition (with some examination of Continental influences) from the 1890’s to about 1950.
Prerequisite: 6 credits of junior English

ENGL 376
Canadian Literature Since 1960
3 credits, 16 weeks, 3 hours lecture
A critical and historical study of representative Canadian writing in English since 1960. Through representative Canadian Literature since 1960 by writers from the Atlantic to the Pacific regions depicting differences in gender, ethnicity, race and sexual orientation, this course elucidates shifts in literary patterns and cultural realities during this phase. Questions will be addressed regarding the impact of social and technological changes on Canadian literature.
Prerequisite: 6 credits of junior English

ENGL 378
Canadian Literature by Women
3 credits, 16 weeks, 3 hours lecture
English 378 is a study of Canadian literature across the genres by Canadian women writers from the mid-nineteenth century to the present. Literature will be read for its representation of dominant literary concerns of its time and its use of specifically women’s themes and structures. Readings will address the relationship between Canadian literature by women and the literary canon and specific schools of feminist literary criticism.
Prerequisite: 6 credits of junior English

Note: The minimum progression grade is C- • Not all courses are offered each year
ENGL 379  
Canadian Literature, 1925-1960  
3 credits, 16 weeks, 3 hours lecture  
A critical and historical study of representative Canadian writing in English from 1925 – 1960. Through representative Canadian Literature from 1925 to 1960 by writers of different genders and different ethnic backgrounds from the Atlantic to the Pacific regions, this course elucidates the literary and cultural shifts during this phase. The focus is on literature as a reflection of the changing Canadian identity. Questions will be addressed regarding the swings from rural to urban lifestyles and in literary conventions from realism to modernism.  
_Prerequisite: 6 credits of junior English_

ENGL 391  
Traditions in Women’s Literature II  
6 credits, 32 weeks, 3 hours lecture  
English 391 is a study of literature across the genres by women writers from the mid-twentieth century to the present. Literature will be read for its representation of dominant literary concerns of its time and its use of specifically women’s themes and structures. Readings will question the relationship between women’s literature and both the literary canon and the respective influential schools of literary criticism.  
_Prerequisite: 6 credits of junior English_

ENGL 397  
Early 20th Century Literature and Culture: Modernism and Modernity  
3 credits, 16 weeks, 3 hours lecture  
This course will study the development of Modernism and its influence on the style and subject matter of Twentieth Century literature. It will focus primarily – but not exclusively – on poetry. Students will learn the aesthetic, social, and historical forces that led to Modernism. They will see how World War I provides the metaphor for the modern world and learn the continuing impact Modernism has on current literature. This course will provide a perspective on the movement, literature and age of Modernism. It will focus on representative authors of the period within their historical and cultural contexts. It will study the literature and culture of the era that responded to Ezra Pound’s imperative to “make it new”.  
_Prerequisite: 6 credits of junior English_

ENGL 399  
Hemingway  
3 credits, 16 weeks, 3 hours lecture  
The course will involve a study of Hemingway’s prose works: short stories, novels and non-fiction. It will present him as an influential 20th century stylist following in the footsteps of Henry James, Ezra Pound and James Joyce. The focus of the course will be on recent trends in Hemingway criticism, rather than on the earlier biographical interpretations of Carlos Baker and Philip Young.  
_Prerequisite: 6 credits of junior English_

ENPHY 131  
Mechanics  
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial, 3 hours lab every second week  
4.3 Engineering units for the University of Alberta  
Kinematics and dynamics of particles, gravitation, work and energy, linear momentum, angular momentum, systems of particles, introduction to dynamics of rigid bodies, accompanied by related laboratory work.  
_Prerequisite: MATH 100 and ENGG 130  
Co-requisite: MATH 101  
Pre- or Co-requisite: PHYS 1130  
Note: ENPHY 131 is restricted to Engineering students.

ENVS 100  
Traditional Land Use  
3 credits, 2 weeks, 3 hours lecture, 3 hours lab/field study  
This course will develop students’ ability to understand Traditional Land Use, purpose of TLU assessments, preparing and planning TLU assessments and implementing TLU assessments through field study interviewing, mapping, translation, data validation and conducting community reviews.

ENVS 110  
Environmental Planning  
3 credits, 2 weeks, 3 hours lecture, 3 hours lab/field study  
This course will develop students’ ability to understand environmental planning theory, planning applications in pipeline and linear development sites, construction and operations. Field study will include: route selection and planning, water crossings, vegetation management, soil erosion management, storm water management, ancillary facilities and access roads.

ENVS 120  
Environmental Inspection, Monitoring and Auditing  
3 credits, 2 weeks, 3 hours lecture, 3 hours lab/field study  
This course will develop students’ ability to understand the concepts of inspection, monitoring and auditing, gain knowledge of government regulations and related permit and license requirements, understand the inspection and monitoring terms of reference associated with regulatory compliance and environmental mitigation, interpret line and site drawings, environmental assessment documents, mitigation programs and contractor scope of work. Students will engage in exercises and field study to apply inspection, monitoring and auditing knowledge in real situations.
ENVS 130
Reclamation
3 credits, 2 weeks, 3 hours lecture, 3 hours lab/field study
Students in ENVS 130 will become familiar with provincial and federal reclamation criteria and compliance requirements, understand typical terms of reference associated with reclamation, develop landowner and land occupant communication skills. Students will engage in exercises and field study to complete preliminary site assessments for reclamation planning and cost estimates, and apply reclamation programs to real situations. Assist in the assessment and development of a reclamation program. Assist with soil sampling for reclamation of contaminated sites and complete detailed vegetation assessments for reclamation applications.

ENVS 140
Global Information Systems (GIS) Applications
2 credits, 2 weeks, 2 hours lecture, 2 hours lab/field study
Students in ENVS 140 will develop their ability to understand basic geomatics and basic map use and ground truthing. Field study will include: basic Geographic Positioning System use, managing data, mapping systems and applying thematic information.

ENVS 150
Waste Management & Monitoring
3 credits, 2 weeks, 3 hours lecture, 3 hours lab/field study
Students in ENVS 150 will become familiar with waste management criteria and compliance requirements; understand typical terms of reference associated with hazardous waste, solid waste, liquid waste, consolidated tailings, sumps and drilling fluids, recycling, storage and containment. Students will engage in exercises and field study to apply waste management and monitoring programs to real situations.

ENVS 180
Work Placement I
4 credits, 200 hours
Students will be assigned by Keyano Designate Instructors to conduct lab and field study tasks and duties in all courses in the Environmental Theory sessions and Specialization Modules. Field study locations may require travel and may require trainees to camp outdoors or be accommodated in lodging arrangements. Students are interviewed and offered paid placements by Industry Stakeholders.

ENVS 190
Work Placement II
4 credits, 200 hours
Students are interviewed and offered paid placements by Industry Stakeholders.

ENVT 163
Water Quality
3 credits, 16 weeks, 2 hours lecture, 3 hours lab
This course provides an overview of water quality protection and pollution control of ground and surface water. Treatment of drinking water and municipal waste water, water quality guidelines for drinking water and surface water, pathogens, oxygen levels and nutrient loading, properties of water, related chemistry and terminology, ecology of lentic systems, turnover, thermal stratification, and hydrology of the northern river basin are discussed.
Prerequisite: CHEM 101 and EAS 100

ENVT 164
Safety and Environment
2 credits, 16 weeks, 1 hour lecture, 3 hours lab
This course provides an introduction to occupational health and safety and environmental topics. Health, safety and environmental issues are inter-related in the workplace. The modules in this course will provide information on safe work practices, rights and responsibilities of employers and employees, and on environmental problems and problem solving.

ENVT 165
Geotechnical Sampling & Instrumentation
3 credits, 16 weeks, 2 hours lecture, 3 hours lab
The course is an introduction to the practical field and laboratory techniques used in the construction of buildings, industrial facilities, roads, bridges, containment structures, waste handling facilities, power lines, pipe lines and recreation sites common to the area. Topics such as construction site safety and material sampling and testing (soil, gravel, concrete and asphalt) are covered.

ENVT 167
Oil, Gas and Oil Sands
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
This course provides an introduction to the conventional oil and gas industry in Western Canada, both upstream and downstream, as well as to the new and increasingly important oil sands and heavy oil operations. Topics covered include geology, exploration, ecological impact of exploration and operational disturbances drilling operations, pipeline construction, compressor stations and gas plants, flaring, and the history and public image of the industry, especially in Alberta. Field trips may include visits to local oil sands operations (both open-pit mines and SADG), and a gas plant.
Prerequisite: CHEM 101 and EAS 100
COURSE DESCRIPTIONS

ENVT 170
Animal Identification
3 credits, 16 weeks, 2 hours lecture, 2 hours lab
Students will develop identification skills necessary for identifying vertebrates and aquatic invertebrates of Alberta with a special emphasis on identifying provincially and/or federally listed species. Course topics include bird ID by sight and ear, mammal tracking and aquatic invertebrate collection and identification.
Prerequisite or Co-requisite: BIOL 108

ENVT 220
Co-op Work Term
10 credits, 15 weeks, 40 hours practicum
Students in the Co-op Education program will be registered under this course number for their work placement, from May to August, following the successful completion of Terms 1 & 2 of their Environmental academic program.
Prerequisite: Completion of Terms 1 & 2

ENVT 252
Regional Plant Identification
3 credits, 16 weeks, 2 hours lecture, 2 hours lab
This course covers identification and classification of native vascular plants, bryophytes, and lichens. Topics include plant identification, taxonomy, species concept, morphology, sampling, pressing, mounting, plant collections, voucher sets, herbarium specimens, and relevant resource material. A plant collection is required.
Prerequisite: BIOL 108

ENVT 262
Environmental Laws, Guidelines, Regulations & Land Rights
3 credits, 16 weeks, 3 hours lecture
This course provides an understanding of Acts and Regulations under municipal, provincial and federal jurisdiction as they relate to environmental protection and development of natural resources in Alberta. Key pieces of legislation this course examines include the Alberta Environmental and Protection and Enhancement Act, Alberta Land Stewardship Act, Public Lands Act, the Species at Risk Act, the Fisheries Act, and Treaty 8. Special emphasis is placed on developing skills to independently obtain information and therefore remain current on environmental protection standards because legislation and policy is continuously re-examined by legislative bodies.
Prerequisites: EAS 100 and ENVT 167
Prerequisite: EAS 100

ENVT 265
Forest Technology
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
The course provides the student with an overview of the forest industry in the Boreal Forest in Western Canada. Topics covered include utilization of tree species by sawmill operations and pulp and paper mills, the ecology of the tree species used, recent developments in forest management practices, stand assessment, forest mensuration, silviculture, dendrology, and forest pests and control. An introduction to aerial photography interpretation, map use, and compassing is given.
Prerequisite: BIOL 208

ENVT 266
Land Reclamation
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Reclamation objectives, practices and assessment strategies will be discussed as they related to planned components of resource extraction activities, and as they related to post-hoc reclamation initiatives. The focus of this course is on methods of prevention control, and remediation of altered or degraded land as a result of human activities. This includes, but is not limited to, the decommissioning of base metal and oil sands mine sites, pipelines, and redevelopment of urban brownfields. A significant portion of the course involves synthesizing concepts from throughout the ENVT program in the form of independent projects with an emphasis placed on student-directed learning. This capstone course is taken in a student’s final semester of the ENVT Diploma program.
Prerequisites: ENVT 252, ENVT 262, SOILS 210 AND STAT 151

ENVT 267
Mining and Mineral Processing
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
This course provides an introduction to underground and open-pit mining methods, materials handling, reclamation activities, and general mining environmental issues. In particular, the course will cover the conventional coal industry, coal bed methane, oil sands mining, diamond mining, and other resource activities in Alberta and the NWT. Emphasis will be placed on practical applications, but some understanding of basic principles is also essential. Lab work will cover a broad spectrum of interest areas, but always linked to where possible to environmental applications. Field trips may include visits to local oil sands operations to view geology and reclamation activities and possibly a visit to a coal mine in the Edmonton area.
Prerequisites: EAS 100 and ENVT 167
Prerequisite: EAS 100
ENVT 270
Wildlife Management and Conservation
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial
The course provides students with a synthesis of wildlife ecology, conversation and management in industrial, agricultural, urban, rural, and wilderness environments. Both game and non-game species in terrestrial and aquatic environments are considered. Specific topics addressed include: population biology; wildlife/habitat relationships; herbivory and predation; behavioral ecology; competition; parasites and pathogens; population sampling; conservation biology and management techniques. Field trips are required.
Prerequisites: ENVT 170

FREN 111
Beginners’ French I
3 credits, 16 weeks, 5 hours lecture
Designed for students with little or no previous background in French. Covers material in matriculation-level French and allows students to proceed into the study of French at the University level.
Note: Not to be taken by students with credit in FREN 100, or with Native or near Native proficiency, or with French 30 or its equivalents (e.g. French 20S or 20N etc.) in Canada and other countries.

FREN 155
French Reading Comprehension
3 credits, 16 weeks, 3 hours lecture
French 155 is a basic course in French grammar and reading comprehension designed to teach students the fundamentals and skills required to read French at an intermediate level. There is no emphasis or practice of oral skills in French and the language of instruction is English.
Prerequisite: French 30, French 100, French 111, French 112 or equivalent
Note: This course is not open to students with credit in FREN 150, FREN 200, FREN 211 or FREN 212. This course may be followed by FREN 156.

FREN 156
Further Reading in French
3 credits, 16 weeks, 3 hours lecture
French 156 is the continuation of French 155. French 156 is an intermediate course in French grammar and reading comprehension to teach students the fundamentals and skills required to read French at an advanced level. There is no emphasis or practice of oral skills in French and the language of instruction is English.
Prerequisite: FREN 155 or permission of Program Chair
Note: This course is not open to students with credit in FREN 150, FREN 200, FREN 211 or FREN 212.

FREN 211
Intermediate French I
3 credits, 16 weeks, 5 hours lecture
Spoken and written French, including grammar, composition, and literature.
Prerequisite: FREN 100, French 30 (or equivalent) or French 112 or permission of Program Chair
Note: Not to be taken by students with credit in FREN 150.

FREN 212
Intermediate French II
3 credits, 16 weeks, 5 hours lecture
Continues to cover the material in spoken and written French, including grammar, composition and literature.
Prerequisite: FREN 211 or permission of Program Chair
Note: Not to be taken by students with credit in FREN 150.

FST 210
An Introduction to Film Analysis
3 credits, 16 weeks, 3 hours lecture
This course introduces students to the critical analysis of films and filmmaking, with an emphasis on the art of the director. The course offers a survey of styles and genres from Canadian and international feature film. The majority of films are contemporary, but we will also examine a few classics to better understand on-going conventions, such as continuity editing.
Prerequisite: 6 credits in junior English or ARTH 101 and ARTH 102, or equivalent
**GENET 270**  
**Foundations of Molecular Genetics**  
3 credits, 16 weeks, 3 hours lecture, 1.5 hours seminar  
This course will focus on concepts of the organization and expression of genetic material with particular focus on experiments that have been done with bacteria and viruses.  
*Prerequisites:* BIOL 207

**GEOG 020**  
**Geography 20**  
5 credits, 16 weeks, 5 hours lecture  
This course will focus on generational changes in settlement patterns related to industrial development, the physical features of and systems related to the working of a town or city; the social characteristics of peoples; and the relationship of neighborhoods to their urban centers, regions and provinces. Special attention will be paid to the settlement patterns in the Regional Municipality of Wood Buffalo as compared to those seen in other regions of the country.  
*Alberta Education course Equivalency: Local and Canadian Geography 20*  
*Prerequisite:* Social Studies 10 or permission of program chair  
*Co-requisite:* ENGL 020 or ENGL 023 or permission of the program Chair

**GEOG 030**  
**Geography 030**  
5 credits, 16 weeks, 5 hours lecture  
This course will focus on world patterns of population and settlement, in humankind’s use of the Earth, and of our physical world. Topics will include the major cities of the world; changes in world economies as humankind moves from hunter-gathering into the information age; and the importance of global climate, land masses, vegetation, soils or bodies of water to human population, settlement and economies.  
*Alberta Education Course Equivalency: World Geography 30*  
*Prerequisite:* Social Studies 10 or permission of program Chair  
*Co-requisite:* ENGL 020 or ENGL 023 or permission of the program Chair

**GEOG 105**  
**Introduction to Mapping, GPS, Remote Sensing, and GIS**  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab  
The course will train students in the use and application of paper, digital, and computer methods for acquisition, presentation and interpretation of geospatial data. Topics will include topographic and reference maps, scales and coordinate systems, land survey systems, global positioning systems (GPS), thematic maps, remote sensing air photo interpretation, and the utilization of geographical information systems (GIS) with ArcView. Emphasis will be placed on practical applications, but some understanding of basic principles is also essential. Lab work will cover a broad spectrum of interest areas, but also linked where possible to environmental applications.

**HCA 110**  
**Working as a Health Care Aide**  
3 credits, 40 hours lecture, 5 hours lab  
This course will provide the student with the opportunity to learn the roles and responsibilities of the Health Care Aide including being familiar with the provincial legislation that guides safe ethical personalized care. In addition the student will learn about providing safe client care, ensuring environmental safety, and self care and safety while working in a team environment.

**HCA 111**  
**Communication in the Health Care Environment**  
2 credits, 21 hours lecture, 9 hours lab  
This course focuses on communication within the health care team. Communication with clients and their families and written communication including documentation in client records and report completion is also covered. Strategies will be introduced related to problem solving, and conflict management.  
*Prerequisites:* HCA 110

**HCA 112**  
**Structure and Function of the Human Body: Health and Chronic Illness**  
3 credits, 39 hours lecture  
In this course the student will study 10 systems that make up the human body as well as growth and development across the lifespan. The students will learn about the most common chronic illnesses and how to provide safe care to the individual client.  
*Prerequisites:* HCA 110 and HCA 111

**HCA 113**  
**Providing Client Care and Comfort**  
2 credits, 28 hours lecture, 35 hours lab  
The student will learn to safely bath a client in the bed, tub and shower. Bedmaking skills, assisting with elimination and meals will be introduced. Body mechanics for both client and staff will be emphasized. Infection prevention and control guidelines and safety measures to prevent slips, trips, falls and accidental scalding will be introduced.  
*Prerequisites:* HCA 112
COURSE DESCRIPTIONS

HCA 114
Meeting Complex Care Needs
1 credit, 17.5 hours lecture, 23.5 lab
This course will provide the student with knowledge related to keeping the client’s joints exercised through range of motion exercises. The student will also learn skills necessary for supporting care activities such as ostomy care, respiratory and catheter care, specimen collection, wound care and measuring vital signs, pain, height and weight.
*Prerequisites: HCA 113*

HCA 115
Assisting with Medication Delivery
1 credit, 6 hours lecture, 12 hours lab
The student will learn to work safely within legal roles and responsibilities related to safe medication delivery. The theory and labs in this course will assist the student to undertake this task with competence and confidence.
*Prerequisites: HCA 114*

HCA 116
Special Activities for Diverse Clients
3 credits, 47 hours lecture, 2 hours lab
This course discusses care strategies for assisting diverse client groups such as clients with mental health diagnosis and clients with development delays and physical disabilities. Assisting with infant and child care will be discussed. Included in this course are modules that deal with understanding the disease process that causes both cognitive and physical decline in clients with a diagnosis of dementia. Skills and strategies relating to provision of care for clients with dementia will be identified.
*Prerequisites: HCA 115*

HCA 117
Practicum
3 credits, 200 hours
Under the direction of a RN or LPN students will work on a continuing care unit and a designated assisted living site providing care and support for clients.
*Prerequisites: Successful completion of all HCA certificate courses*

HE ED 110
Introduction to Personal Health and Well Being
3 credits, 16 weeks, 3 hours lecture, 1 hour lab
An individual-based analysis of physical fitness and personal health issues. Emphasis on planning and managing one's own lifestyle for health and well-being within the context of the current health care system. Open to all students.

HE ED 220
Introduction to Biological Aspects of Fitness & Health
3 credits, 16 weeks, 3 hours lecture, 1 hour lab
A biological analysis of the contributions of physical activity and exercise to fitness and long term health. Emphasis is on the introduction of training principles, health related components of physical fitness, exercise and physical activity guidelines, and the application of these concepts for determination of physical fitness, individual long term outcomes, and preventable disease.

PEDS 311
Assessment of Fitness and Health
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
Students will gain knowledge in fitness, health and research appraisal. Emphasis will be given to validity and reliability of various assessments and factors involved in the assessment of performance and health assessment.
*Prerequisites: PEDS 200 and one of PEDS 109 or 309 or STAT 141 or 151*

HETD 110
Introduction to Heavy Equipment Service Industry
2.5 credits, 40 hours
Students will learn about the history of Heavy Equipment manufacturers and their product line(s). Best practices regarding safety, materials and tools will be addressed in addition to an introduction to shop facilities and equipment. Students will become familiar with Service Information Systems(s) as well as computer operation.

HETD 120
Truck and Trailer Suspension and Steering
3 credits, 50 hours
This course will help students understand the fundamentals and servicing of truck and trailer frames and suspension; wheels, tires and hubs; trailer landing gear; coupling units; trailer types and an introduction to trailer inspection as directed by the Commercial Vehicle Inspection program; oxy-fuel heating and cutting; and preventive maintenance.

HETD 130
Air Brakes
2.5 credits, 45 hours
This course will look at the fundamental operation of air brakes, operating principles of mechanical components, and pneumatic components in a typical air brake system. Trailer air brake components operation is covered along with system testing and diagnostics. Antilock brakes are also covered within this course including antilock brakes.

HETD 140
Fundamentals of Hydraulics
4.5 credits, 80 hours
This course is an exploration of the principles and concepts of hydraulics. Hydraulic oil and contamination control principles are discussed in this course. Pumps, actuators, motors and valves are covered including types and operation. Reservoirs, filters, hoses and coolers are covered as well as accumulators. ISO symbols are used to identify components and some basic hydraulic systems are explored. Included in this course will be hydraulic brake systems including drum and disc brakes, brake boosters, parking brakes as well as electric brakes. The servicing of these systems is also covered.
HETD 150
Safety Training
1.5 credits, 25 hours
Topics covered in this course include customer service and communications, forklift training, rigging, safety orientation and corporate overview as well as other topics deemed necessary for students to complete prior to commencing their work experience.

HETD 190
Work Placement I
4.5 credits, 320 hours
Placement will occur at a specific industry partner location. In the event that a placement is not available, the student will be required to arrange a practicum placement with the assistance of the college.

HETD 210
Engine Fundamentals
6.5 credits, 110 hours
This course provides the student with an introduction to the engine product lines. Fundamentals and components are covered before going into the various engine systems. These systems include air induction and exhaust, supercharging, lubrication and cooling systems. Disassembly, inspection and reassembly are also covered in the classroom and shop.

HETD 220
Engine Fuel Systems
5.5 credits, 90 hours
This course will cover diesel fuel and storage tanks; combustion process and starting aids; the basic fuel injection system; fuel system servicing; the port/helix metering fuel system; opposed plunger inlet fuel metering system; fuel injectors; emergency shutdown systems; various types of fuel systems; governors; electronic fuel management fundamentals, components, tune-up and analysis; gasoline fuel injection; and alternate fuel systems.

HETD 230
Electrical Fundamentals
2.5 credits, 40 hours
This course will introduce students to basic electrical and electronic fundamentals. Topics included are: electrical circuits; electrical components and symbols; the use of test equipment and techniques when working with electronic ignition systems; and batteries, battery service and testing.

HETD 290
Work Placement II
4.5 credits, 320 hours
Placement will occur at a specific industry partner location. In the event that a placement is not available, the student will be required to arrange a practicum placement with the assistance of the college.

HETD 310
Power Train I
5.5 credits, 95 hours
This course will explore power train components that are mechanical power transfer units. These include clutches, driveline, manual transmissions, transfer cases and drive axle assemblies. Topics will also include: gear principles, transmission shifting and the servicing of the previous assemblies.

HETD 320
Electrical Systems
6 credits, 100 hours
Concentration in this course will be on the charging and starting systems going through the operation of 12 and 24 volt systems. Testing, overhaul and troubleshooting are covered as well as starter drives and non-electric starting systems. Truck and machine electrical and accessory circuits are also discussed in this section.

HETD 330
Air Conditioning Systems
2.5 credits, 45 hours
The physics involved in air conditioning systems are covered; students will then progress to controls systems and system components. The procedure for testing and service are covered as well as the diagnostic procedures to be accomplished in a safe and environmentally secure manner. Various tools and the proper use of equipment will be covered.

HETD 390
Work Placement III
4.5 credits, 320 hours
Placement will occur at a specific industry partner location. In the event that a placement is not available, the student will be required to arrange a practicum placement with the assistance of the college.

HETD 410
Machine Hydraulic Systems
6.5 credits, 110 hours
This course is designed to teach the system operations as well as the testing and adjusting procedures for the pilot operated hydraulic system, the load sensing, pressure compensated (LSPC) hydraulic system, the electro-hydraulic system, and the hydrostatic system. Students will identify the system components, state the component function and trace the oil flow through the component. This section will be covered on different types of machines.
HETD 420  
**Power Train II**  
6 credits, 100 hours  
Students will continue to study Power train drives focusing on those which have a hydraulic component. Torque converters, gearing principles, power shift and automatic transmissions are covered in relation to operation, diagnostics and service procedures. Also included are hydraulic retarders, tracked equipment steering and undercarriage fundamentals and service. Final drive operation and service, differentials as applied to off-road will also be discussed. Wheeled equipment steering and suspension as well as off-road equipment accessories and attachments will be discussed in reference to off-road machines.

HETD 440  
**On-Highway Steering**  
2 credits, 30 hours  
Students will cover the fundamentals of steering as well as service of steering systems. Also covered will be steering angles and alignment and an orientation to vehicle inspection.

HETD 490  
**Work Placement IV**  
4.5 credits, 320 hours  
Placement will occur at a specific industry partner location. In the event that a placement is not available, the student will be required to arrange a practicum placement with the assistance of the college.

HETD 510  
**Machine Electronics**  
3.5 credits, 60 hours  
This course introduces the student to machine electronic systems and diagnostic tooling need by a technician to properly diagnose and repair the complex electrical/electronic systems.

HETD 520  
**Machine Diagnostics**  
4 credits, 70 hours  
This course introduces the student to machine problem identification using diagnostic tooling and reference material to properly diagnose and repair the complex systems. The course will concentrate on repairing logic and applications, using a troubleshooting and diagnosis process, to solve machine faults in the power train, hydraulic system and electrical system.

HETD 530  
**Engine Diagnostics and Repair**  
3.5 credits, 60 hours  
This course is an in-depth study of engine diagnostics and repair techniques. Students will acquire the knowledge to diagnose and correct engine deficiencies while utilizing diagnosis and troubleshooting procedures, use of diagnostic tools, and use of reference material. The four major engine systems studied are oil, air, cooling and fuel.

HETD 540  
**Machine Specifics**  
3 credits, 50 hours  
This course introduces students to machine specific systems. The course material will provide students with a general knowledge of machine specific systems.

HETD 590  
**Work Placement V**  
4.5 credits, 320 hours  
Placement will occur at a specific industry partner location. In the event that a placement is not available, the student will be required to arrange a practicum placement with the assistance of the college.

HIST 111  
**Early Modern World History**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to world history from the fifteenth century to 1815. Themes to be discussed will include cross-cultural encounters, political and economic developments on a national and global scale. Students will also be introduced to the discipline of history.

HIST 112  
**The Modern World**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to world history 1815 to the present. Themes to be discussed will include nineteenth century imperialism, nationalism, revolution war and decolonization. Students will also be introduced to the discipline of history.

HIST 228  
**The Early History of the British Peoples**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to the history of the British Isles from ancient times to 1688, with a particular focus on the history and development of England. The course will cover the main themes in British political, social, economic and cultural history, and will provide students with a foundation for senior courses in British history.

HIST 232  
**Ireland from Early Times to the Present Day**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to the history of Ireland from ancient times to the present day. The course will cover the main themes in Irish political, social, economic and cultural history, and will provide students with a foundation for senior courses in Irish history.

HIST 250  
**The United States to 1865**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to the history of the United States from colonial times to the end of the Civil War. The course will cover the main themes in American political, social, economic and cultural history, and will provide students with a foundation for senior courses in American history.
COURSE DESCRIPTIONS

HIST 260
An Introduction to the Study of Canadian History
1500 — 1867
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to Canadian History from the first Amerindian-European contacts in the 1500s to Confederation in 1867. Among the topics to be discussed are Aboriginal/White relations, English/French relations, political and economic developments in the colonies of New France and British North America. This course provides a foundation for senior and advanced courses in Canadian history.

HIST 261
An Introduction to the Study of Canadian History
1867 to the Present
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to Canadian History from 1867 to the present. Among the topics to be discussed are Aboriginal/White relations, French-Canadian nationalism, sectionalism, labour history as well as political, economic and social developments in Canada during this period. This course provides a foundation for senior and advanced courses in Canadian history.

HIST 296
History of the Second World War
3 credits, 16 weeks, 3 hours lecture
This course explores many aspects of World War II that continue to engage military historians. Topics covered include the causes of the war; military weaponry and doctrine and their development throughout the war; significant air, sea, and land campaigns of the war; the aftermath and consequences of the war; and perspectives on the meaning and place of World War II in history.

HIST 303
Introduction to the History of Women
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to the study of the history of women in the western world. It will examine the position of women in western societies from the Middle Ages to the present. Among the topics to be discussed will be women and revolution, women and religion, “les querelles des femmes” and the struggle for the vote.

HIST 310
Canadian Environmental History
3 credits, 16 weeks, 3 hours lecture
This course examines Canadians’ historical relationship to their environment. Various topics will be discussed, beginning with literature which charts 19th century environmental awareness in North America, Europe and the British Empire. In this setting, Canadian issues stemming from early European and Native contact, colonial industry, resource use, parks and conservation, ecofeminism, consumerism and postmodernism will be covered. Special attention will be given to understanding northern Alberta resource issues within this context. 

Prerequisite: A previous course in Canadian history or permission of the Program Chair.

HIST 318
Medieval and Imperial Russia
3 credits, 16 weeks, 3 hours lecture
A study of the Russian people, state and culture from its origins to 1800, with emphasis on major institutional, social and ideological changes. This course deals with the origins of Russian history, the influence of Orthodox Christianity and the Tartar conquest, the establishment of autocracy and serfdom, and the westernization of Russia in the 17th and 18th centuries.

HIST 339
The Second British Empire and Commonwealth Experience in the Nineteenth and Twentieth Centuries
3 credits, 16 weeks, 3 hours lecture
This course examines the history of the British Empire in the nineteenth and twentieth century, incorporating the colonies of settlement; the so-called dependant colonies of Africa, Asia and the Pacific; and, at times, the history of Great Britain itself. The course is organized to balance both metropolitan and colonial perspectives, and will cover themes and issues relevant to the political, economic, military, political, social and political history of the British Empire through decolonization after the Second World War.

HIST 365
The Canadian West to 1885
3 credits, 16 weeks, 3 hours lecture
This course examines the history of the Prairie West from pre-contact times to 1885. It will include some discussion Northern history as well as the transmountain West. Topics to be discussed will include Aboriginal history, early exploration, the fur trade era, Riel and the Metis Nation and westward expansion.

HIST 366
The Canadian West Since 1885
3 credits, 16 weeks, 3 hours lecture
This course examines the history of Canada, west of Ontario, from 1885 to the present. Various topics will be discussed such as the development of a regional identity in the West and the political traditions of the West.

HIST 373
History of Atlantic Canada
3 credits, 16 weeks, 3 hours lecture
Survey of historical developments in the Atlantic region. The course will incorporate an interdisciplinary approach, with a view to understanding the culture(s) of the region. Through lectures and discussions, the various intellectual, social, political and economic strands that give identity to the region will be explored.
HIST 374
French Canada to Confederation
3 credits, 16 weeks, 3 hours lecture
This course is designed to introduce students to the history of French Canada from the period of exploration and first contacts to Confederation. Various topics will be discussed from a French Canadian perspective including the society of New France, the conquest, the rebellion of 1837 and the French Canadian response to Confederation.

HIST 375
French Canada Since Confederation
3 credits, 16 weeks, 3 hours lecture
This course introduces students to the history of French Canada from the time of Confederation to the present. Topics will include the conscription crises, the rise of Duplessis and the rise of the Parti Quebecois. These topics will be discussed from a French Canadian perspective.

HIST 397
History of Science I
3 credits, 16 weeks, 3 hours lecture
An introduction to the History of Science, from Ancient Greece to Newton, studies in its religious, political, social and economic contexts.

INT D 100
Interdisciplinary Studies
3 credits, 16 weeks, 3 hours lecture
This course introduces students to the intellectual skills inherent in the arts and sciences, which equips students for employment and citizenship in a changing world. It also explores the intellectual skills, modes of thinking, and disciplinary diversity within the arts and sciences.

JOB 005
Job Skills
2 credits, 16 weeks, 2 hours lecture
Students will learn how to do a job search, set goals, and research a variety of careers of interest to them. This course will help prepare AF students to complete the SDG career research investigation forms. These forms are needed to secure funding when moving from AF to College Preparation.

LIF 005
Healthy Lifestyles
2 credits, 16 weeks, 2 hours lecture
Students will learn about the following topics:
- budgeting and values
- budgeting techniques
- being a wise consumer
- developing your own personal spending plan
- using the Canada Food Guide to prepare and serve low-cost, nutritious meals
- eating to suit your lifestyle and to create the body you want
- accessing health resources
- making positive lifestyle choices now so your body won’t give out before its time.

MATH 10C
Mathematics 10C
6 credits, 16 weeks, 6 hours lecture
Topics covered include linear SI metric and Imperial measurement and conversions; surface area and volume of 3D objects; right triangle trigonometry; apply the power laws with integral and rational exponents; perform all operations (addition, subtraction, multiplication, division) on polynomials; factor polynomials; identify, describe, interpret and analyze relations and functions; evaluate functional notation; determine domain and range; graph and define linear relations; solve linear system of two relations
Alberta Education Course Equivalency: Math 10C
Prerequisite: AFM 009 or permission of the program chair

MATH 10-3
Math 10-3
5 credits, 16 weeks, 5 hour lecture
The primary focus of this course is the development of spatial sense through direct and indirect measurement. Using imperial and metric units, fractions and decimals, students will describe the relationship among, and solve problems involving, length, area, volume, capacity, mass, temperature, angles, triangles and polygons. Students will also solve problems that require manipulation and application of formulas related to perimeter, area, primary trigonometric ratios, Pythagorean’s theorem, income and unit pricing.

MATH 20-1
Mathematics 20-1
5 credits, 16 weeks, 6 hours
Topics covered include oblique triangle trigonometry; application of trigonometry and the unit circle up to 360; perform all operations (addition, subtraction, multiplication, division) on radicals and rational expressions, solve radical and rational equations; graph, analyze and apply quadratic functions; solve quadratic equations; solve systems involving both linear and quadratic equations; graph, analyze and solve linear and quadratic inequalities and absolute value functions
Alberta Education Equivalency: Math 20-1
Prerequisite: Math 10, Math 20-2, Math 10C or permission of the Program Chair
COURSE DESCRIPTIONS

MATH 20-2  
Mathematics 20-2  
5 credits, 16 weeks, 6 hours lecture  
Topics covered include right angle trigonometry; applications involving rates and ratios (scale relationships of 2D and 3D shapes); manipulation and application of formulas; apply the power laws on integral and rational exponents; evaluate absolute values; perform all operations (addition, subtraction, multiplication, division) on radicals; solve radical equations; graph and apply quadratic functions; solve quadratic equations; spatial reasoning. Extensions to the core materials may include a Business Prep module involving the interpretation and analysis of statistical data and the utilization of inductive and deductive reasoning to prove conjectures and a Trades prep module for further exploration of 3D objects (model, draw, describe, scale diagrams, etc) and the creation and interpretation of circle and line graphs.  
Alberta Education Equivalency: Math 20-2  
Prerequisite: Math 10, Math 13, Math 10 C or permission of the Program Chair

MATH 20-3  
Math 20-3  
5 credits, 16 weeks, 5 hours lecture  
This course further develops the concepts introduced in Math 10-3. The focus on the development of spatial sense through direct and indirect measurement is expanded to include the modeling and scale calculations of 3 dimensional objects. Problems and diagrams requiring the manipulation and application of formulas related to slope and rate of change are added to those of volume, capacity and surface area. Students create and interpret statistical data expressed within graphs, and they prepare budgets, credit calculations and compare services provided by financial institutions.  
Pre-requisite: MATH 10-3

MATH 30-1  
Mathematics 30-1  
5 credits, 16 weeks, 6 hours  
Topics covered include the unit circle; graph, analyze and solve problems using the three primary trigonometric functions for angles expressed in radians and degrees; solve first degree trigonometric equations; prove trigonometric identities; perform operations on and composition of functions; analyze and perform translations on graphs of functions and related equations; logarithms; graph, analyze and solve polynomial functions; permutations, combinations and binomial theorem.  
Alberta Education Equivalency: Math 30-1  
Prerequisite: Math 20-1 or Math 30-2 or permission of the Program Chair

MATH 30-2  
Mathematics 30-2  
5 credits, 16 weeks, 6 hours  
Topics covered include properties of angles and triangles; oblique triangle trigonometry; solve systems of linear equations; perform operations (addition, subtraction, multiplication, division) on rational expressions; solve rational equations; logarithms; numerical and logical reasoning. Extensions to the core materials may include a Business Prep module focussing on linear inequalities; probability; permutations, combinations and the fundamental counting principle and/or a Trades Prep module which explores measurement involving triangles, quadrilaterals and regular polygons, including transformations on 2D shapes or 3D objects.  
Alberta Education Equivalency: Math 30-2  
Prerequisite: Math 20-2 or Math 20-1 or permission of the Program Chair

MATH 30-3  
Math 30-3  
5 credits, 16 weeks, 5 hours lecture  
The focus on the development of spatial sense introduces an understanding of the limitations of measurement tools in terms of precision, accuracy, uncertainty, and tolerance. Students perform translations, rotations, reflections and dilations on 2D and 3D models. Within the topic of linear relations, students demonstrate proficiency in graphing, formula manipulations, interpolation and extrapolation. Students critique the viability of small business options by considering expenses, sales and profit/loss statements. Statistical reasoning is developed through study of measure of central tendency and the analysis of probability.  
Pre-requisite: MATH 20-3

MATH 031  
Calculus  
5 credits, 16 weeks, 6 hours lecture  
Topics covered include differential calculus of algebraic functions with applications to problems involving motion, rates of change, optimisation and areas; vectors in the plane and in 3-space; matrix algebra; and solutions of systems of linear equations.  
Alberta Education Course Equivalency: Mathematics 31  
Prerequisite: MATH 30-1 or permission from the Program Chair

MATH 100  
Calculus 1  
3 credits, 16 weeks, 3 hours lecture, 2 hours lab  
4.0 Engineering units for the University of Alberta  
This course covers rectangular and polar coordinates, analytic geometry, transcendental functions, limits, continuity, derivatives and applications, Taylor polynomials, integration and applications.  
Prerequisite: MATH 30-1 and Math 31  
Note: This course may not be taken for credit if credit has already been obtained in MATH 1113, or University of Alberta’s MATH 114 or MATH 117. MATH 100 is restricted to Engineering students.
MATH 101
Calculus II
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial
3.5 Engineering units for the University of Alberta
This course covers applications of integration to lengths, areas, volumes, and masses, inverse trigonometric and hyperbolic functions, methods of integration, polar and parametric equations, vector functions and derivatives.
Prerequisite: MATH 100
Note: This course may not be taken for credit if credit has already been obtained in either MATH 1115 or University of Alberta’s MATH 118.
MATH 101 is restricted to Engineering students.

MATH 102
Applied Linear Algebra
3 credits, 16 weeks, 3 hours lecture, 1 hour lab
3.5 Engineering units for the University of Alberta
This course covers vector and matrix algebra, systems of linear equations, vector geometry in the plane and in space, determinants, orthogonality and applications, eigenvalues and eigenvectors with applications, complex vector spaces. The course will also introduce students to the use of the computer algebra system MATLAB in solving problems in Linear Algebra.
Prerequisite or Co-requisite: MATH 100
Note: This course cannot be taken for credit if credit has already been obtained in MATH 1120, or University of Alberta’s MATH 125 or MATH 127.
MATH 102 is restricted to Engineering students.

MATH 1113
Elementary Calculus I
3 credits, 16 weeks, 3 hours lecture, 1 hour lab
This course is an introduction to the differential and integral calculus of algebraic functions of a single variable. Topics include limits and continuity of functions, techniques and applications of differentiation and definition and properties of the definite integral.
Prerequisite: Math 30-1

MATH 1115
Elementary Calculus II
3 credits, 16 weeks, 3 hours lecture
This course is an extension of Mathematics 1113, involving a study of the elementary transcendental functions and of further techniques and applications of integration. Topics include exponential and logarithmic functions, trigonometric and inverse trigonometric and further applications of integration, L'Hopital's rule and improper integrals.
Prerequisite: MATH 1113

MATH 1120
Basic Linear Algebra I
3 credits, 16 weeks, 3 hours lecture
This course covers systems of linear equations, vectors in a n-space, vector equations of lines and planes, matrix algebra, inverses and invertibility, introduction to linear transformations, subspaces of n-space, determinants, introduction to eigenvalues and eigenvectors, the dot product and orthogonality, applications in a variety of fields, and numerical methods.
Prerequisite: Math 30-1
Note: This course cannot be taken for credit if credit has already been obtained in any of MATH 102, or University of Alberta’s MATH 125 or MATH 127.

MATH 160
Higher Arithmetic
3 credits, 16 weeks, 3 hours lecture
This course is restricted to students of Elementary Education. It will provide them with an elementary introduction to Logic, Sets, Number Theory, Representations of Numbers, Number Systems, and probability Theory.
Prerequisite: Math 30-1, Math 30-2, or permission of the Program Chair

MATH 214
Intermediate Calculus I
3 credits, 16 weeks, 4 hours lecture
Topics include Infinite series, Taylor series, vectors, complex numbers, 2- and 3-dimensional analytic geometry; multivariate differential calculus, emphasizing the 2- and 3-dimensional cases; curves in 2-dimensions, and polar coordinates.
Prerequisite: MATH 1115

MATH 215
Intermediate Calculus II
3 credits, 16 weeks, 4 hours lecture
Topics include: an introduction to ordinary differential equations; curves in 3-space; integration in 2- and 3-dimensions; polar, cylindrical, and spherical coordinates; line and surface integrals; Green's divergence and Stokes' theorems.
Prerequisite: MATH 214

MATH 260
Topics in Mathematics
3 credits, 16 weeks, 4 hours lectures
Problem solving in different areas of mathematics. Note: This course is intended for Education students and is not open to Science students.
Prerequisite: MATH 160 or teaching experience at elementary or junior high school level.
MCT 111  General Education
60 hours
This course provides a review of basic academic skills necessary for success in apprenticeship technical training. Students will develop independent study and research skills, use of SQ3R and time management techniques, review remedial grammar, punctuation, sentence structure, paragraph writing and report writing, and complete an apprenticeship trade career exploration research assignment. Students will further review the mathematics and science entrance level competencies necessary to ensure that entrance into any apprenticeship training program may be attainable.

MCT 112  Personal Management
60 hours
This course provides a review and understanding of health and safety issues, standards and employability dynamics related to industrial settings. Topics include OH&S legislation, Loss Management, Due Diligence, Employment Standards, Labour Relations and Workers Compensation legislation. The course further provides development of worksite communication, interpersonal and conflict resolution skills, an overview of Alberta Industry Training (apprenticeship) procedures, resume creation and interview techniques, drug and alcohol policies, industrial hygiene, management perspectives, and a systems perspective related to safety management and labour market dynamics. Additional topics include procedures for Manual Material Handling and a review of Fitness to Work issues. Certifications include Standard level First Aid + CPR, Shifting to Wellness, Fall Arrest and Aerial Platform, OSSA & CSTS and WHMIS.

MCT 137  Industry Placement
240 hours
An apprenticeship industry placement of 240 hours completes the course offering of the MCTP Program. Trade designation for placement is made according to student choice. Placements are unpaid and subject to the normal policies, rules, procedures and performance expectations of hosting industry employers. Note: placement is subject to availability and may involve a gap in time between completion of in-house courses and industry placement.

MCT 121  Electrical
60 hours
This course provides an overview of the electrical trade and deals with electrical theory, related mathematics and physics. Emphasis is given to OHM’s Law and understanding of series and parallel circuitry. Electrical safety, procedure and practices are applied in lab assignments dealing with low-voltage circuit construction and 120 V wire runs with switch, light, plug-in terminations.

MCT 138  Welding
60 hours
Welding involves the fusion of metal components through the application of heat. This course provides an overview of metal and allied trades specific to the use of welding and cutting techniques. Primary emphasis is given to welding safety, including safe work procedures, work conditions and related welding hazards. Lab practice focuses on SMAW (Shielded Metal Arc Welding) and oxyacetylene flame cutting. Topics include metal identification, mechanical and physical properties of metal, introduction to metallurgy and basic joints, types of welds, weld faults, power sources, and mild steel welding electrodes.

MCT 139  Mechanics
60 hours
Mechanics relates to the maintenance, repair and overhaul of light and heavy vehicles and equipment, both self-propelled and towed, which may be used both on-road and off-road. This course provides an overview of HET and AST trades with basic theory related to engines, power transmission, drive trains, steering systems, suspension, electrical systems and alignment. Topics include the use of manuals and specifications, measurement and diagnostic tools, safe use of hand, electric and pneumatic tools. Particular attention is given to shop safety and safe use of hoisting equipment and jacks. Lab practice involves the use of testing equipment, vehicle inspection and performance of basic maintenance functions.

MCT 140  Parts
15 hours
In this course, Parts Technician, Materials and Parts, is used as a template to understand the procurement, flow, sale and dispersal of materials, parts and tools related to efficient business operations in all trade areas. Topics covered include shipping, receiving, Bill of Lading/ Waybill, stocking, security, catalogue use and customer service. Included are operation of powered/ non-powered material handling devices, manual material handling techniques and forklift operation (certification).
MCT 141
Pipefitting/Plumbing
60 hours
This course introduces students to the basic concepts and overview of the steamfitter/pipe-fitter/plumbing trades. Theoretical components include trigonometry/geometry, safety, tools of the trade and an introduction to materials used in the trade. Hands-on components require the student to produce projects related to the theory portion of the course, including. Projects are completed with regard to safety and quality workmanship specific to tube bending, cooper soldering & layout, pipe threading, compression fittings & installation, and plumbing fixture installation. When complete, students have knowledge of basic concepts and skills which may be applied to a related pipe trade field environment.

MCT 142
Millwright
60 hours
Millwrights install, maintain, repair and troubleshoot stationary industrial machinery and mechanical equipment. This course provides an overview of bearing, coupling, clutch, packings / gaskets/seals, pumps, alignment, hydraulic and power transmission theory. Topics include fasteners, threading systems, accurate use of measurement, layout/prints, hand tools and safe operation of metal fabrication rotating equipment. Equipment movement and hoisting is cover with emphasis on safe rigging theory and practice. Lab practice is a mechanical fabrication project.

MCT 143
Carpentry
60 hours
This program is designed to provide an understanding of basic carpentry and woodworking skills required to enter a carpentry apprenticeship. Students gain knowledge of woodworking machines, hand tools, safe working practices and become familiar with the materials and procedures needed to succeed in the field. Theoretical components include shop and work site safety, related mathematics, general construction code and layout, framed construction including, in particular, curved wall framing, straight and curved stair construction. Hands-on components include the use of layout, boring, cutting and fastening tools. Students acquire skills in the use of portable power saws, drills, drivers, routers, fastening tools in addition to the use of stationary power tools.

MGTSC 312
Probability and Statistics for Business, Part II
3 credits, 16 weeks, 3 hours lecture
This course is the second part of an introduction to statistical analysis. Topics include statistical inference for the variance; statistical inference for the means, proportions and variances from two populations; analysis of variance; non-parametric statistics; joint probability distributions; marginal and conditional distributions; covariance, correlation and independence; contingency tables; simple, multiple and non-linear regression; and time series analysis. 
Prerequisite: MGTSC 301 and MATH 1120

MICRB 265
General Microbiology
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
This course will focus on the structure and physiology of free-living and pathogenic bacteria. The diversity of their metabolic activities, the interaction of microbes with their environment, symbiotic relationships and cell-to-cell communication are major topics. Lectures and laboratory exercises are coordinated to explore topics in basic microbiology, environmental microbiology, molecular microbiology, and the production of economically or medically important products through microbial biotechnology. 
Prerequisite: BIOL 107 and CHEM 161 or CHEM 164 or CHEM 261

MMI 133
Medical Microbiology for Nurses
3 credits, 16 weeks, 3 hours lecture
Introductory course in Microbiology designed specifically for students in the BScN Program. The course begins with basic information on microorganisms, the immune system, hospital hygiene, transmission of infection, infections, antimicrobials, disinfection and sterilization. The later part of the course concentrates on pathogenic organisms related to organ systems and how they cause disease.

MUSIC 100
Introduction to Music
3 credits, 16 weeks, 3 hours lecture
A study of the elements of music and various musical styles with an emphasis on listening and analytical tools. Music covered includes folk, jazz, popular, music of other countries and a brief survey of the history of Western classical music. This course requires no previous musical training.

NATST 100
Introduction to Native Studies
3 credits, 16 weeks, 3 hours lecture
This course will introduce the discipline and expectations of Native Studies to the student by emphasizing research and writing skills necessary in an academic environment. The subject matter for the course will come from such areas as the cultural histories and analysis of contemporary conditions of Native societies in Canada.
COURSE DESCRIPTIONS

NATST 110
Historical Perspectives in Native Studies
3 credits, 16 weeks, 3 hours lecture
A thematic introduction to the historical relationships, colonial contexts, and social, economic, political and cultural patterns that have shaped the contemporary situation of Aboriginal peoples in Canada.

NATST 111
Contemporary Perspectives in Native Studies
3 credits, 16 weeks, 3 hours lecture
An introductory survey of current issues affecting Aboriginal peoples in Canada and their efforts to confront their colonial relationships with and within Canadian society.

NURSE 099
Nursing Skills & Safety Screen
5 credits, 3 hours seminar, 42 hours lab over 7 weeks
This course is mandatory for students who have failed a clinical course or the student who has left the program and wishes to return. In the lab setting, the student will simulate the nursing care of clients experiencing acute and complex variances in health in ambiguous, rapidly changing situations. Objective data will be collected through the observed structured nursing care for simulated patients utilizing selected levelled clinical scenarios. This data will be supplemented with examples of writing (learning goals, nursing care plan, patient research, charting and self-evaluation). Developed checklists for the skills chosen will be utilized to evaluate the skills component of this screen. In addition, the student will be required to write and pass a Medication Administration Safety Screen (MASS) prior to the lab skills evaluation. The student will not register in any nursing courses until successfully completing the Nursing Skills and Safety Screen course.

NURSE 113
Pathophysiology
3 credits, 45 hours over 15 weeks
The focus is the application of human anatomy and physiology to the concepts of pathophysiology. Course content will be addressed within the context of underlying disease process and alterations in health.
Pre-requisites: NURSE 117. Must be completed prior to year 2 of the program.

NURSE 114
Introduction to Nursing Theory I
6 credits, 36 hours lecture, 36 hours seminar, 26 hours lab over 15 weeks
Focus in the on the basic concepts of the nursing profession and discipline: nursing, person, health, and environment. These concepts will be explored within the context of primary health care and changing perspective of health and how this evolution has impacted the development of the profession of nursing. The philosophical, theoretical, historical, ethical and legal underpinnings of professional practice will be examined.
Co-requisites: NURSE 113, and NURSE 116.

NURSE 115
Pharmacotherapeutics in Nursing
3 credits
This course begins with an introduction to drug classification and regulation—from discovery to the patient. Pharmacodynamic and pharmacokinetic principles will be introduced. Four fundamental domains of drug movement and modification will be studied: drug absorption, distribution, metabolism, and excretion. To illustrate how the principles involved in Pharmacotherapeutics need be incorporated into professional nursing practice; examples of prototypic drugs from each drug class will be used. Safe, evidence-based practice will be emphasized.

NURSE 116
Introduction to Health Assessment
4 credits, 36 hours lecture; 36 hours lab over 15 weeks
Focus is on the health assessment of the well adult, with expected aging modifications. The course provides a beginning foundation of assessment skills and technologies necessary for determining client health status within the context of a nursing framework. Factors influencing lifestyles and personal health practices are included.
Co-requisite: NURSE 113, and NURSE 114

NURSE 117
Anatomy and Physiology
6 credits, 16 weeks, 6 hours lecture
This course will introduce students to Anatomy, which is the study of the structure and relationships among structures; and Physiology which is the science that describes the normal function of living organisms with respect to the activities of tissues, organs, and systems. The central focus of the course is to illustrate and integrate structural principles and to build a fundamental knowledge and correlation between structure and function and of general system rules.

NURSE 118
Anatomy and Physiology II
3 credits, 16 weeks, 3 hours lecture
This is a 3 credit Anatomy and Physiology course that is a continuation of Nurse 117. This course will continue to introduce students to Anatomy which is the study of the structure and relationships among structures; and Physiology which is the science that describes the normal functions of living organisms with respect to the activities of tissues, organs, structural principles and to build a fundamental knowledge of the correlation between structure and function and of general systems rules.
NURSE 190
Nursing in Context A
7 credits, 10 weeks, 6 hours seminar, 3 hours lab
This course is an introduction to the professional discipline of nursing, communication theory, and context-based learning. The primary health care emphasis is on health promotion and disease prevention across the life span. Restoration and rehabilitation will be introduced. Health assessment and basic nursing skills will be introduced.

NURSE 191
Nursing Practice 1
3 credits, 4 weeks, 2 hours seminar, 3 hours lab, 16 hours clinical
Beginning nursing practice with a focus on health promotion and interaction with clients across the life span in a variety of non-traditional settings.
Co-requisite: NURSE 190

NURSE 194
Nursing in Context A1
5 credits, 7 weeks, 6 hours seminar, 3 hours lab
A continuation of the study of concepts introduced in Nurse 190 with a focus on teaching and learning principles and increased health assessment and basic nursing skills.
Prerequisite: NURSE 190

NURSE 195
Nursing Practice II
6 credits, 7 weeks, 3 hours seminar, 3 hours lab, 21 hours clinical
Nursing practice includes health status assessment of clients and appropriate health promotion and disease/injury prevention interventions. Practice occurs in settings where clients live or in community agencies (non-acute) where services to clients are offered.
Prerequisite: NURSE 190, NURSE 191, and NURSE 194

NURSE 206
Introduction to Nursing Theory II
3 credits, 45 hours over 15 weeks
Focuses on health promotion and support to individuals in the pursuit of health throughout their lives. A variety of concepts from nursing and other disciplines will be integrated into the overall learning. Students will be initiated into nursing roles with individuals in community, assisted living, and long term care facilities.
Pre-requisites: NURSE 113, NURSE 114, NURSE 116

NURSE 207
Introduction to Nursing Practice
6 credits, 210 hours clinical over 15 weeks
This course introduces students to nursing practice. Practice focuses on individuals in community and long-term care settings.
Pre-requisites: NURSE 113, NURSE 114, NURSE 116.
Co-requisites: NURSE 206, NURSE 115

NURSE 208
Mental Health Nursing Theory
6 credits; 18 hours lecture, 36 hours seminar, 18 hours lab over 15 weeks.
Focus is on theory related to the promotion of mental health and the nursing care of people with acute and chronic alterations in mental health.
Pre-requisites: NURSE 113, NURSE 114 NURSE 116, NURSE 115

NURSE 209
Mental Health Nursing Practice
6 credits, 168 hours clinical over 15 weeks
Students will have the opportunity to apply concepts of mental health nursing to the care of individuals experiencing acute and chronic alterations in mental health in hospital and community settings.
Pre-requisites: NURSE 113, NURSE 114 NURSE 116, NURSE 115
Co-requisites: NURSE 208

NURSE 290
Nursing in Context B
5 credits, 7 weeks, 6 hours seminar, 3 hours lab
Within the context of primary health care, the focus shifts to restoration, rehabilitation and support of clients experiencing chronic and less acute variances in health. Discussion related to health promotion and disease prevention continues. Intermediate health assessment and nursing skills will be introduced.
Pre-requisite: NURSE 194, NURSE 195

NURSE 291
Nursing Practice III
7 credits, 7 weeks, 3 hours seminar, 3 hours lab, 25 hours clinical
Nursing practice will focus on restoration, rehabilitation and support (including health promotion and disease prevention) of clients with chronic and less acute variances in health across the life span. Practice will occur primarily in primary level acute care centers and continuing care agencies.
Pre-requisite: NURSE 290

NURSE 294
Nursing in Context B1
7 credits, 7 weeks, 6 hours seminar, 3 hours lab
This course is a continuation of Nurse 290 with increasing situational complexity.
Pre-requisite: NURSE 290 and (NURSE 291 or NURSE 295)

NURSE 295
Nursing Practice IV
7 credits, 7 weeks, 3 hours seminar, 3 hours lab, 25 hours clinical
Nursing practice will focus on restoration, rehabilitation and support (including health promotion and disease prevention) of clients with chronic and less acute variances in health across the life span. Practice will occur in homes or in community-based settings.
Pre-requisite: NURSE 290
COURSE DESCRIPTIONS

NURSE 301
Nursing Research
3 credits, 7 weeks, 5.5 hours lecture
Introduction to the process of research through a comparative analysis of selected studies exemplifying different theoretical, methodological, and analytical approaches. Emphasis will be on the communicability of research, the needs of the research consumer, and the development of skills of critical appraisal. 
Prerequisite or Co-requisite: Statistic Elective

NURSE 307
Acute Care Nursing Theory I
6 credits, 26 hours lecture, 52 hours seminar, 39 hours lab over 15 weeks.
The primary focus is the theoretical foundation for the client-centred care of adults and elderly clients and their families experiencing variations in health acute and chronic illnesses. Comprehensive assessment and best practice interventions are addressed within the context of a primary health care framework and nursing model.
Prerequisites: NURSE 206, NURSE 207, NURSE 115
Co-requisite: NURSE 308

NURSE 308
Acute Care Nursing Practice I
6 credits, 208 hours clinical over 15 weeks
The primary focus is the application of theory in the client-centred care of hospitalised adults and their families experiencing variations in health acute and chronic illnesses. Practice occurs primarily in primary, secondary, and tertiary acute care settings.
Prerequisites: NURSE 206, NURSE 207, NURSE 115
Co-requisites: NURSE 307

NURSE 309
Community Nursing Theory
6 credits, 26 hours lecture, 52 hours seminar, 26 hours lab over 15 weeks
Focus is on the philosophical and theoretical domains of nursing individuals, families and groups in the community across the lifespan. Students will also specifically explore theory related to the nursing care of the child-bearing family. Community nursing management and intervention consistent with the principles of primary health care will be explored and fostered.
Prerequisites: NURSE 206, NURSE 207, NURSE 115
Co-requisites: NURSE 310

NURSE 310
Community Nursing Practice
6 credits, 208 hours clinical over 15 weeks
Students will have the opportunity to apply concepts of community health nursing. Nursing practice will include health assessment and interventions with child-bearing families. Students will develop competence in both family and community assessments, the use of therapeutic communication skills, and the planning, implementation, and evaluation of community nursing interventions.
Prerequisites: NURSE 206, NURSE 207, NURSE 115
Co-requisites: NURSE 309

NURSE 375
Special Studies in Nursing
Variable Credits
Special Studies in Nursing.

NURSE 388
Nursing Research and Statistics
6 credits, (28 hours lecture, 9 hours lab, and 40 hours group work over 14 weeks)
Students will be introduced to the process of research through a comparative analysis of selected students exemplifying different theoretical, methodological, and analytical approaches. Emphasis will be on understanding the research process, in knowing how to critically read, analyze, and begin to apply the knowledge gained from research in practice. Students will gain an understanding of descriptive and inferential statistics used in nursing research. Students will also examine trends and issues in developing evidence-based practice for the profession of nursing.
Co-requisite: NURSE 390

NURSE 390
Nursing in Context C
5 credits, 7 weeks, 6 hours seminar, 3 hours lab
Within the context of primary health care, the focus is on restoration, rehabilitation and support of clients experiencing more acute variances in health. Discussion related to health promotion and disease prevention continues. Advanced health assessment and nursing skills will be introduced.
Prerequisite: NURSE 291, 294 and 295

NURSE 391
Nursing Practice V
7 credits, 7 weeks, 3 hours seminar, 3 hours lab, 25 hours clinical
Nursing practice will focus on restoration, rehabilitation and support (including health promotion and disease prevention) of clients experiencing more acute variances in health across the life span. Practice will occur in primary, secondary, and tertiary acute care setting.
Prerequisite: NURSE 390, NURSE 290, NURSE 291, NURSE 294 and NURSE 295
NURSE 394  
Nursing in Context C1  
5 credits, 7 weeks, 6 hours seminar, 3 hours lab  
Continuation of Nurse 390 with increasing situational complexity.  
Prerequisite: NURSE 291, NURSE 294 and NURSE 295

NURSE 395  
Nursing Practice VI  
7 credits, 7 weeks, 3 hours seminar, 1 hour lab, 27 hours clinical  
Nursing practice will focus on restoration, rehabilitation and support (including health promotion and disease prevention) of clients across the lifespan who are experiencing more acute variances in health. Practice occurs in homes, acute care settings or in community-based settings.  
Prerequisite: NURSE 394

NURSE 405  
Acute Care Nursing Theory II  
6 credits, 26 hours lecture, 52 hours seminar, 39 hours lab over 15 weeks  
A comprehensive approach to primary health care components in the care of clients in complex situations locally, nationally, and internationally. High acuity health assessments and interventions are introduced. Case management, interdisciplinary collaboration, community development, and socio-political action are emphasized.  
Pre-requisites: NURSE 206, NURSE 207, NURSE 115  
Co-requisites: NURSE 406

NURSE 406  
Acute Care Nursing Practice II  
6 credits, 208 hours clinical over 15 weeks  
Professional nursing practice focuses on a comprehensive application of primary health care principles to clients experiencing acute variances in health across the lifespan. Practice will occur in primary, secondary, and tertiary level acute care settings.  
Pre-requisites: NURSE 206, NURSE 207, NURSE 115  
Co-requisites: NURSE 405

NURSE 407  
Leadership and Issues in Nursing  
3 credits, 45 hours over 15 weeks  
Using the primary health care framework, a variety of professional, social, political and global issues affecting the nursing profession and Canadian health care system will be addressed. Key principles of leadership and management will also be addressed within the context of these issues.  
Pre-requisites: NURSE 206, NURSE 207, NURSE 115  
Co-requisites: NURSE 405, NURSE 406

NURSE 490  
Nursing in Context D  
5 credits, 7 weeks, 6 hours seminar, 3 hours lab  
A comprehensive approach to primary health care components in the care of clients in complex, ambiguous situations. Case management and multidisciplinary students may have the opportunity to lead a multidisciplinary student group skills will be emphasized.  
Prerequisite: NURSE 391, NURSE 394 and NURSE 395

NURSE 491  
Nursing Practice VII  
7 credits, 7 weeks, 3 hours seminar, 2 hours lab, 26 hours clinical  
Management and care of clients in ambiguous, complex, situations occurring over a variety of settings.  
Prerequisite: NURSE 391, 394, and NURSE 490

NURSE 494  
Nursing in Context D1  
3 credits, 4 weeks, 7 hours seminar, 3 hours lab  
Synthesis and focus of nursing knowledge and application of nursing research in a specific area of practice.  
Prerequisite: To enroll in this course, students must have passed all courses in their nursing program except NURSE 495

NURSE 495  
Nursing Practice VIII  
9 credits, 10 weeks, 1 hour seminar, 34 hours clinical  
Comprehensive approach to professional practice of nursing in an area of special interest to the student.  
Prerequisite: NURSE 490, NURSE 491 and NURSE 494

NUTR 100  
Nutrition and Wellbeing  
3 credits, 16 weeks, 3 hour lecture  
The course examines the fundamental principles of nutrition and the effects it has in society, athletic performance and physical education. It includes an analysis of practical and theoretical concepts of nutrition and the effects that dietary intake has on exercise, body composition and athletic performance.

OA 107  
Business Math & Microsoft Excel Specialist  
2 credits, 16 weeks, 4 hours lecture  
Students will complete practical mathematical application problems on topics such as percentages, invoices, merchandising and interest calculations. Through hands-on exercises, students are introduced to basic features and applications of a spreadsheet program. Using some of the more common worksheet and range commands, students develop and format worksheets containing various cell entries, formulas, and several built-in functions.  
Prerequisite: OA 110
COURSE DESCRIPTIONS

OA 108
Accounting I
3 credits, 16 weeks, 4 hours lecture
Through hands-on experience and practical examples, students will develop a sound knowledge of the principles of accounting. Business simulations and business problems provide the students with the reinforcement necessary to fully understand and maintain the accounting records of a service business and a merchandising business organized as a partnership.

OA 109
Computerized Accounting I
2 credits, 16 weeks, 4 hours lecture
Students will be introduced to the most commonly utilized accounting software in small business. Students will work with the accounting records of several different small businesses organized as sole-proprietorships and partnerships. Current payroll legislation will also be covered.
Prerequisite: OA 108 or equivalent

OA 110
Windows & File Management
1 credit, 6 weeks, 5 hours lecture
This is a foundation course in operating Windows and managing drives, files, and folders in a network environment using Windows Explorer. Students will also learn functions of a computer system, hardware and software components, e-mail and Internet features. This course provides a solid foundation for students to learn subsequent Windows applications.

OA 118
Keyboarding I
2 credits, 16 weeks, 4 hours lecture
Students will master touch keyboarding including alphabetic and non-alphabetic parts of the keyboard. Keyboarding software is used to provide an individual diagnostic/prescriptive methodology as a means toward developing accuracy and increasing speed. Students will be required to spend time outside of class for practice.

OA 119
Keyboarding II
2 credits, 16 weeks, 3 hour lecture
Students will use an individualized diagnostic/prescriptive methodology as a means toward maintaining accuracy and increasing keyboarding speed. Keyboarding software will be utilized to enhance learning in the areas of technique perfection in keystroking, keyboard reinforcement, and rhythm development.
Prerequisite: OA 118

OA 120
Business Communications I
3 credits, 16 weeks, 5 hours lecture
Good communication skills, more than any other factor, determine who gets the good job, who does that job well, and who gets the promotion. This course is designed to provide a firm foundation for effective business communications - both written and oral. Practical principles of grammar and punctuation will be mastered by the student. Spelling and vocabulary expertise is developed with emphasis placed on terminology used in today's electronic office.

OA 122
Business Communications II
3 credits, 16 weeks, 5 hours lecture
Students will develop skills in oral and written communications and demonstrate these skills in the preparation of business correspondence, job search documents and interviews, customer service situations, oral presentations, and meetings. This course will take the student through the steps of planning and producing effective business memos and letters and will present strategies for overcoming common business-writing problems. A strong focus will be placed on the job search, including the resume, application letter, and interview.
Prerequisite: OA 120 and OA 145

OA 133
On-The-Job Training
2 credits, 4 weeks, 40 hours practicum
Students are placed in a business setting for approximately four weeks. This enhances the students' formal training by providing an opportunity to apply newly acquired technical and administrative skills.
Prerequisite: Successful completion of all Office Administration Certificate courses

OA 135
Human Relations In Business
2 credits, 16 weeks, 4 hours lecture
This course focuses on personality development for work. It is becoming increasingly evident that students need highly-developed human relations skills to be successful in the workplace. The course is designed to guide students through building and shaping their behaviour so that they get along effectively with others in a business environment. The necessity for and the development of teamwork skills is emphasized throughout the course. The importance of creative thinking and problem-solving skills for today's office professional is also stressed.
Note: PLA not allowed for this course.
OA 136  
Office Procedures  
2 credits, 16 weeks, 4 hours lecture  
The administrative support procedures for office tasks common to most offices today are presented. The topics covered will be reception duties; meetings, minutes, and conferences; telephone/communications techniques; travel arrangements; distribution of information; sources business corporations.  
Prerequisite: OA 110

OA 145  
Microsoft Word & Document Preparation I  
3 credits, 16 weeks, 5 hours lecture  
OA 145 is an introductory course that is designed to develop a thorough understanding and proficient skills in basic word processing concepts and functions. Students will learn the step-by-step procedures for creating and editing a word processing document; move, copy, find and replace text; efficient keyboard and mouse techniques for moving the insertion point, changing the view within a document, and selecting text; linking document text, and utilizing proofing tools including the spelling, grammar, thesaurus, and autocorrect tools. Introductory concepts related to character, paragraph, and document formatting will also be covered. An emphasis will be placed on efficiency and accuracy in the preparation and printing of assignments.  
Co-requisite: OA 110 and OA 118

OA 146  
Microsoft Word – Specialist & Document Preparation II  
3 credits, 16 weeks, 5 hours lecture  
Word processing software will be used to develop skills in document preparation. A varied selection of documents will be prepared including letters in several styles and lengths, memoranda, envelopes, basic reports with headings and subheadings, and tables in a variety of uses. Merge basics will be introduced and resumes will be prepared in a table format with the automated table feature. Students will also develop skills in utilizing resources including a reference manual, postal manual, and handouts as a guide to well formatted documents. An emphasis will be placed on the efficient and accurate preparation of mailable documents.  
Prerequisite: OA 118 and OA 145

OA 150  
Medical Terminology  
3 credits, 16 weeks, 3 hours lecture  
This course is designed to provide students with the medical terminology necessary for employment in any medical oriented office. The students will learn the spelling and vocabulary of medical terms in preparation for transcription. Emphasis will be placed on anatomy, pharmacology, and psychology.

OA 151  
Medical Office Procedures  
3 credits, 16 weeks, 3 hours lecture  
This course introduces students to office procedures in a medically-oriented office. The students will learn how to: schedule and manage appointments, set up and maintain filing systems, properly fill out forms pertinent to a medical office, transcribe from taped materials, operate the provincial billing software.  
Prerequisite: OA 150

OA 162  
Legal Office Procedures  
3 credits, 16 weeks, 3 hours lecture  
This introductory course is designed to familiarize the students with basic duties and procedures performed by a legal secretary. Students will obtain a working knowledge of simple legal documents and their use. As well, a comprehensive study in the area of wills and litigation. Topics covered are career qualifications, dealing with clients, legal style correspondence, law office files and record management, legal accounting and preparing legal instruments.  
Prerequisite: OA 145 or equivalent

OA 163  
Legal Office Administration  
3 credits, 16 weeks, 4 hours lecture  
This course is designed to provide students with a comprehensive study in the area of estates, real estate and business corporations. Topics will include the preparation of all documents dealing with probating estates, real estate conveyancing, foreclosures and business corporations.  
Prerequisite: OA 162 and 40 wpm keyboarding speed

OA 164  
Legal Work Placement  
2 credits, 4 weeks, 40 hours practicum  
Students are placed in a legal setting for approximately four weeks. This enhances the students’ formal training by providing an opportunity to apply newly acquired technical and administrative skills.  
Prerequisite: Successful completion of all Office Administration Certificate courses including OA 162 and OA 163
OA 170
Work Term I
9 credits, 16 weeks, 40 hours practicum
Work Term I is a mandatory four-month work placement for students enrolled in the first year of the Office Administration Co-op Education Diploma program. In this semester, students will be employed by a public or private sector organization to gain on-the-job experience in industry. A contractual agreement between the student and the employer will form the basis for evaluation of the student’s performance during the work term. In order to fulfill the course requirements, students will also be required to complete a formal work report at the end of the placement as well as meet with the Co-operative Education Coordinator/Instructor at least twice during the work term.

OA 180
Microsoft Access
2 credits, 10 weeks, 5 hours lecture
This course deals with the management of information in business. The student will learn to design and manage electronic filing systems for various office environments. Records management using the Microsoft ACCESS database software is introduced. The student will learn fundamental database concepts and features, including designing, creating, and modifying database structures. Records will be sorted, selected, and reports generated.
Prerequisite: OA 110

OA 208
Accounting II
3 credits, 16 weeks, 3 hours lecture
Students will be trained to design and set up a computerized accounting system. The focus of this course is the establishment and maintenance of all accounting functions in preparation for tax time. Other topics include exporting and integrating files, year-end adjustments, accounting for uncollectible accounts receivable, accounting for fixed assets, inventory evaluation methods, and depreciation.
Prerequisite: OA 109

OA 209
Computerized Accounting II
3 credits, 16 weeks, 5 hours lecture
Students will be introduced to the world of corporate accounting. Through hands-on exercises students will become proficient in the operation of a large corporate accounting system including the System Manager, General Ledger, Accounts Receivable and Accounts Payable modules. Additional topics include accounting for investments, accounting for inventories and analysis and interpretation of financial statements.
Prerequisite: OA 208

OA 215
Microsoft Word – Expert
3 credits, 16 weeks, 3 hours lecture
Students will learn advanced features of popular word processing software. Office tasks will be automated to increase efficiency through the use of autotext, fields, styles, macros, mail merge, outlines, indexes, templates and program customizing. Students will format formal reports and proposals.
Prerequisite: OSWD 100, or OA 146 and OA 119

OA 216
Microsoft Excel – Expert
3 credits, 16 weeks, 3 hours lecture
Students will learn advanced features of popular spreadsheet software. Students will design and create functional spreadsheets which incorporate mathematical formulas and build-in functions. Students will also use macros, database functions, linking to automate tasks, and charting.
Prerequisite: OSXL 100 or OA 107

OA 218
Desktop Publishing
3 credits, 16 weeks, 3 hours lecture
Students will utilize popular desktop publishing software to design layouts for various types of publications including newsletters, brochures and proposals. Text and graphics will be imported from a variety of word processing, spreadsheet, and graphics software to produce “camera-ready” publications.
Prerequisite: OA 215 or equivalent

OA 219
Web Page Design
3 credits, 16 weeks, 3 hours lecture
Students will use specialized software to plan, design, develop, and maintain web home pages. Students will apply basic desktop publishing concepts to the layout and design of the web page. Hyperlinks, forms, graphics, and sound will be included. Basic HTML will be introduced, and students will learn terminology related to the Internet and web pages.
Prerequisite: OA 146, OA 118, and OA 120 or equivalent

OA 220
Presentations & Microsoft PowerPoint
3 credits, 16 weeks, 3 hours lecture
Students will develop and present effective presentations. Emphasis will be placed on refined communication and presentation skills. Students will also learn to use a presentations software program to develop various displays for overhead transparencies and slides. Templates, builds, and transitions will be applied to slides to produce screen shows.
Prerequisite: OA 122 and OA 146 or equivalent
OA 221  
**Reports & Proposals**  
3 credits, 16 weeks, 3 hours lecture  
Students will learn how to research, and write both formal and informal reports and proposals. Particular attention will be paid to structure, content, and language. The use of proofreading techniques, correct grammar, and Plain English concepts will be emphasized in all report-writing assignments. Students will also become familiar with a business plan as well as various formats for meeting minutes and agendas. This course concludes with an overview of job search techniques. Students will update their resumes and compile a professional portfolio.  
*Prerequisite: OA 122 and OA 146 or equivalent*

OA 231  
**Office Automation**  
3 credits, 16 weeks, 3 hours lecture  
This course will examine the changes in technology that provide a foundation for electronic processing and integrated office systems. Students will integrate the Microsoft Office Suite applications to create professional quality documents and will integrate MS Office with the Internet. Also, students will learn to work within a network environment including proficiently communicating and organizing information using Microsoft Outlook.  
*Prerequisite: OA 21S, OA 216 and OA 280 or equivalent*

OA 233  
**On-The-Job Training II**  
3 credits, 4 weeks, 40 hours practicum  
This course gives students the opportunity to work full-time in a local business office for approximately four weeks. It provides for application of skills acquired in training, additional exposure to practical office standards, and reassessment of abilities and expectations. Students who are not employed in a related career while registered in the diploma program will be required to complete this course in order to graduate from the program.  
*Prerequisite: Permission of the Program Chair*

OA 234  
**Business Relations**  
3 credits, 16 weeks, 3 hours lecture  
Business Relations is a human relations skills development course with a strong focus on the workplace. Course participants will have the opportunity to develop or further develop their interpersonal skills through the study of topics such as interpersonal style, effective listening, conflict resolution, leadership roles, supervision, motivation, stress management, and time management.  
*Prerequisite: OA 135 or equivalent*

OA 240  
**Industry Project**  
3 credits, 16 weeks, 3 hours lecture  
This is a customized course designed to meet specific corporate training needs. The program chair will meet with the corporate client group to design the course. It is recommended that this course be offered near the end of the diploma program so that it can be used to ensure the diploma provides a comprehensive education.  
*Prerequisite: Permission of the Program Chair*

OA 245  
**Speedwriting & Transcription**  
3 credits, 16 weeks, 3 hours lecture  
Students will develop speedwriting skills for the purpose of recording meeting minutes and taking notes. Students will also transcribe documents from their speedwriting notes.  
*Prerequisite: OA 145 and OA 118 or equivalent*

OA 280  
**Microsoft Access - Expert**  
3 credits, 16 weeks, 3 hours lecture  
Students will learn advanced database features of popular database software. These features include designing and managing forms, tables, and reports; working with multiple queries; and creating and using macros and switch boards. Students will gain experience in electronic records management through a project-based approach to instruction.  
*Prerequisite: OA 180 or permission of the Program Chair*

PAC 110*  
**Aquatics**  
1.5 credits, 16 weeks, 1 hour lecture, 2 hours lab  
This course is a development of proficiency in swimming and aquatic skills and the examination of theoretical aspects of aquatics.  
*Pending approval from the University of Alberta*

PAC 111  
**Introduction to Basketball**  
3 credits, 16 weeks, 1 hour lecture, 2 hours lab  
Acquisition of theoretical knowledge and personal skill in basketball.

PAC 118  
**Introduction to Soccer**  
3 credits, 16 weeks, 1 hour lecture, 2 hours lab  
PAC 118 is an introductory course designed to offer an introduction to the fundamental individual and team skills of soccer. The acquisition and understanding of these skills will be presented through activity and classroom sessions. The history, evolution and current status of soccer in Canada will also receive attention. A further focus will be the development of an understanding and application of basic strategies, positioning and rules of soccer. Physical performance and written assignments will be evaluated.
COURSE DESCRIPTIONS

PAC 131
Badminton
3 credits, 16 weeks, 1 hour lecture, 2 hours lab
Acquisition of theoretical knowledge and personal skill in basic badminton strokes and strategies is covered in this course.

PAC 137
Volleyball
3 credits, 16 weeks, 1 hour lecture, 2 hours lab
Acquisition of theoretical knowledge and personal skill in the fundamental skills of volleyball is covered. Students will be taught in individual and small group settings.

PAC 144
Resistance Training
3 credits, 16 weeks, 3 hours lab
An introduction to leadership principles in resistance training. Acquisition of theoretical and practical knowledge using various forms of resistance training. Emphasis will be based upon providing the student with leadership skills in resistance training techniques, lifting mechanics, program design and implementation.

PAC 145*
Golf
1.5 credits, 16 weeks, 1 hour lecture, 2 hours lab
Acquisition of theoretical knowledge and personal skill in driving, chipping, pitching, and putting is covered. Students must provide their own equipment.
*Pending approval from the University of Alberta

PAC 156
Yoga for Beginners
3 credits, 16 weeks, 3 hours lab
This course will introduce students to yoga and the basic postures (asanas) and breathing techniques (pranayama) performed within this discipline. Students will learn how yoga strengthens the body, mind, spirit connection while promoting positive overall health and wellness. Students will be introduced to over 70 asana and numerous breathing techniques. In addition, students will become familiar with the history of yoga and the different schools within the discipline. Adapting yoga asana, pranayama, and class structure to accommodate specific populations (seniors, athletes, children and persons with developmental delays/disabilities) will also be covered.

PAC 311
Analysis and Instruction of Basketball
3 credits, 16 weeks, 3 hours lecture
The theory, practice and teaching of the fundamental skills of basketball.
Prerequisite: PAC 111

PAC 318
Analysis and Instruction of Soccer
3 credits, 16 weeks, 3 hours lab
PAC 318 provides the theory, practice, and teaching of the fundamental skills of soccer. Emphasis is on student acquisition of knowledge and physical skill related to the tactful play of soccer. Evaluation focuses on both assessment of physical performance and theoretical understanding.
Prerequisite: PAC 118 or permission of Program Chair

PAC 337
Analysis and Instruction of Volleyball
3 credits, 16 weeks, 1 hour lecture, 2 hours lab
The primary objective is to introduce the student to the study of fundamental technique, team tactics and principles of instruction in the game of volleyball.
Prerequisite: PAC 137

PACE 001
Communication & Conflict Management Skills
8 credits, 16 weeks, 8 hours lecture
Students in PACE 001 will develop questioning skills, attending behaviours and the ability to appropriately express their feelings in a formal school setting, identify assumptions, and give and receive feedback. As well, students will learn the basics of conflict management in a multicultural class or workplace setting and how to disagree in a positive manner. Students will learn to negotiate with peers and those in authority to resolve arguments. Assertiveness training, anger management and self-esteem building will be included.

PACE 002
Academic Survival Skills
8 credits, 16 weeks, 8 hours lecture
Students will develop time management proficiency, SQ3R techniques, test taking, and anxiety controls, note-taking and research expertise. As well, the students will learn how to set priorities, do a time studies analysis, develop and use day plans and lists effectively, and manage stress. A customized math and English refresher and an introduction to computers is included. Individualized academic remediation with Computer Assisted Instruction and tutor support is available.

PACE 003
Critical Thinking and Problem Solving
7 credits, 16 weeks, 7 hours lecture
Students in PACE 003 will develop an understanding of critical thinking and how to apply it to their lives as students and future employees. Topics will include: knowing your attitudes and values, knowing your mental habits, the characteristics of critical thinkers, how to recognize errors in thinking, how to evaluate ideas, and how to apply critical thinking.
PACE 004
Academic and Career Planning
7 credits, 16 weeks, 7 hours lecture
Students in PACE 004 will develop their ability to identify personal interests, and to set, classify, justify and evaluate goals. As well, students will explore the variety of potential careers and training currently available in the region and develop long range action plans on how to reach their vocational goal.

PAR 005
Parenting Skills
2 credits, 16 weeks, 2 hours lecture
Students will learn about: children's physical development and home safety, children's health, parental needs and self-esteem, children's intellectual development, love and discipline, coping with pressures facing modern parents, developing their own parenting style, increasing self-esteem of parent and child, dealing with misbehaviours, effective communication styles, preventing and solving problems.

PCARP110
Building Materials
1 credit, 15 hours
This section will introduce students to common types of solid woods and manufactured construction products. Students will learn not just about the building materials, but also the glues and fasteners commonly used with them, as well as an introduction to concrete as a building material.

PCARP120
Hand and Power Tools
5 credits, 80 hours
In this course students will identify and describe common woodworking tools and their safe use. Tools include small hand tools, portable electric power tools and larger stationary power tools. Tools include but not limited to hand planes, hand boring tools, portable circular saw, router, table saw, jointer, planner and drill press.

PCARP130
Site Preparation and Foundation
3 credits, 46 hours
This section will explain preliminary building operations required prior to the footings being placed. It will identify and describe optical leveling equipment, light and heavy earth moving and leveling equipment used on construction sites. Students will learn the types, design and placement of concrete footings, foundations and slabs for light construction. Students will explore conventional, wood and alternate foundation systems. It covers site preparation to backfill including the forming to the placement of rebar and anchor bolts.

PCARP140
Floor Frame
1 credit, 20 hours
This section will explain how loads transfer from floor systems to foundations as well as the design and construction of beams in residential construction. It includes layout construction of traditional and engineered floor systems. Students will become proficient with building code as they pertain to residential floor systems.

PCARP150
Estimating and Plans
4 credits, 64 hours
This section will introduce students to basic drawing instruments and their use such as sketching orthographic and isometric projections of various shapes, describing isometric angles, page layout and centering techniques. Students will learn how to navigate between the different views in a set of blueprints using common symbols and abbreviations. This section will also include the calculation of materials required for conventional concrete foundations and residential floor systems.

PCARP199
Work Site Placement
4 credits, 240 hours
Six week paid work experience with industry.

PECO 3100
Applied Science
4 credits
Topics include applied math, applied mechanics, thermodynamics, and applied science as identified in the Alberta Boilers Safety Association Reference Syllabus for the first paper of 3rd Class Part A Power Engineering.

PECO 3200
Plant Services
4 credits
The course covers industrial legislation, codes, boiler calculations, fuels and combustion, piping, electrotechnology, electrical calculations, control instrumentation and fire prevention and plant safety as identified in the Alberta Boilers Safety Association Reference Syllabus for the second paper of 3rd Class Part A Power Engineering.

PECO 3300
Steam Generation
4 credits
Topics covered are boilers, boiler control systems, heating and air conditioning, feedwater treatment, pumps, and welding as identified in the Alberta Boilers Safety Association Reference Syllabus for the first paper of 3rd Class Part B Power Engineering.

Prerequisite: Completion of 3rd Class Part A theory or 3A ABSA
COURSE DESCRIPTIONS

PECO 3400
Prime Movers and Auxiliaries
4 credits
This course covers prime movers, air compressors, refrigeration and lubrication as identified in the Alberta Boilers Safety Association Reference Syllabus for the second part of 3rd Class Part B Power Engineering.
Prerequisite: Completion of 3rd Class Part A theory or 3A ABSA.

PECO 3500
Work Experience
12 credits
Six month paid work placement with industry.
Prerequisite: Completion of all 3rd Class course work.
Note: Work placement may be outside Wood Buffalo Region.

PECO 4100
Applied Science
4 credits
Topics include applied mathematics, elementary mechanics and dynamics, elementary thermodynamics, mechanical drawing, administration, industrial legislation, workplace hazardous materials, plant safety and plant fire protection as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part A Power Engineering.

PECO 4200
Plant Services
4 credits
Areas covered are environment, material and welding, piping and valves, high pressure boiler design, high pressure boiler parts and fittings, high pressure boiler operation and feedwater treatment as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part A Power Engineering.

PECO 4300
Steam Generation
4 credits
Course includes prime movers and engines, pumps and compressors, lubrication, electricity, controls, instrumentation and computers, heating boilers, and heating systems as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part B Power Engineering.
Prerequisite: Completion of 4th Class Part A theory or 4A ABSA.

PECO 4400
Prime Movers & Auxiliaries
4 credits
Topics include heating boiler and heating system controls, auxiliary building systems, vapour compression refrigeration, absorption refrigeration, air conditioning, air conditioning systems, boiler maintenance and types of plants as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part B Power Engineering.
Prerequisite: Completion of 4th Class Part A theory or 4A ABSA.

PECO 4500
Work Experience
12 credits
Six month paid work placement with industry.
Prerequisite: Completion of all 4th Class course work.
Note: Work placement may be outside Wood Buffalo Region.

PEDS 100
Human Anatomy
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
Introductory study of human anatomy. Students learn structural and functional components of selected systems of the human body.

PEDS 101
Essentials of Human Physiology
3 credits, 16 weeks, 3 hours lecture
The course provides an introduction to human physiology from cellular to systemic level, with special emphasis on systems which adapt to exercise stress.
Note: Credit will be granted for only one of PEDS 101 or 102.

PEDS 103
Integrative Human Physiology
3 credits, 16 weeks, 3 hours lecture
Introduction to Integrative Human Physiology focuses on the regulation, control, and integration of cellular functions in the human body with special emphasis on systems that respond to exercise stress.
Prerequisite: PEDS 101.
Note: Credit will be granted for only one of PEDS 102 or 103.

PEDS 200
Physiology of Exercise
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
An introduction to physiological adaptations to the stress of exercise and training.
Prerequisite: PEDS 101

PEDS 203
Skill Acquisition and Performance
3 credits, 16 weeks, 3 hours lecture
This course presents a psychological approach to understanding human motor behaviour. The course examines the processes involved in learning motor skills and controlling movement, and the factors that influence acquisition and performance.

PEDS 206
Biomechanics
3 credits, 16 weeks, 3 hours lecture
An introduction to the biomechanics of human movement. A qualitative approach is used in the study of key biomechanics concepts and principles as they are applied to sport and exercise.
Prerequisite: PEDS 100
COURSE DESCRIPTIONS

PEDS 240
Introduction to Sports Injury Management
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
The course allows an analysis of practical and theoretical concepts of sports injuries. It includes an overview of sports medicine, care and prevention of injuries, and safety in athletics and physical education.
Prerequisite: PEDS 100

PEDS 207
Physical Growth & Psychomotor Development
3 credits, 16 weeks, 3 hours lecture
A study of the sequential changes in physical growth and motor development with emphasis on individual differences.
Note: Credit will be granted for only one of PED207 or PED307

PEDS 209
Research Methods in Kinesiology
3 credits, 16 weeks, 3 hours lecture
An overview of research in kinesiology with emphasis on practical application of research techniques and designs.
Prerequisite: STAT 151
Note: Credit will be granted for only one of PEDS 209 or 409.

PEDS 294
A Conceptual Approach to Physical Activity
3 credits, 16 weeks, 3 hours lecture
This course is an exploration of the principles and concepts that underlie movement of individuals and groups in a variety of settings. The focus of the course is on the development of a conceptual understanding of movement; therefore, a wide range of activities and their contexts will be examined and experienced.
Note: Credit will be granted for only one of PAC 101 or PEDS 294.

PEDS 303
Psychology of Sport & Physical Activity
3 credits, 16 weeks, 3 hours lecture
This course introduces the student to psychological theory as it relates to sport and physical activity. Psychological constructs along with their theoretical perspectives will be viewed within a cognitive, emotional, and behavioural framework. An analytical approach is encouraged.

PELEC 110
Circuit Fundamentals
5 credits, 80 hours
Students will acquire a foundation of knowledge covering composition of matter, current, voltage and resistance. This course will explore the characteristics of conductors, series and parallel resistive circuits. An understanding of the interrelation between work, energy, power and efficiency will be discussed. Students will also learn to connect and analyze an Edison 3-wire system.

PEDS 311
Assessment of Fitness and Health
3 credits, 16 weeks, 3 hours lecture, 2 hours lab
Students will gain knowledge in fitness, health and research appraisal. Emphasis will be given to validity and reliability of various assessments and factors involved in the assessment of performance and health assessment.
Prerequisites: PEDS 200 and one of PEDS 109 or 309 or STAT 141 or 151

PELEC 120
EMF Sources
2 credits, 25 hours
This course covers EMF sources and topics will include cells, batteries, magnetism, electromagnetism, electromagnetic induction and generators.

PELEC 130
Equipment Fundamentals
4 credits, 60 hours
Students will cover safe handling and operation of meters, circuits, conductors and resistors, splicing and terminating, relays and controls. Residential alarm systems and smoke detectors are also covered.

PELEC 140
Electrical Code Part 1 and Blueprints
4 credits, 60 hours
Students will cover part 1 of the Canadian Electrical Code which will differentiate and emphasize the importance of the code in the Electrical Industry. A greater understanding of the Alberta apprenticeship program is also acquired. Identification of symbols and interpretation of blue print reading, diagram and schematic drawings are emphasized.

PELEC 199
Work Site Placement
4 credits, 240 hours
Six week paid work experience with industry.

PELM 3100
Applied Science
4 credits
Topics include applied math, applied mechanics, thermodynamics, and applied science as identified in the Alberta Boilers Safety Association Reference Syllabus for the first paper of 3rd Class part A Power Engineering.

PELM 3200
Plant Services
4 credits
The course covers industrial legislation, codes, boiler calculations, fuels and combustion, piping, electrotechnology, electrical calculations, control instrumentation and fire prevention and plant safety as identified in the Alberta boilers Safety Association Reference syllabus for the second paper of 3rd Class Part A Power Engineering.
**PELM 3300**  
**Steam Generation**  
4 credits  
Topics covered are boilers, boiler control systems, heating and air conditioning, feed water treatment, pumps, and welding as identified in the Alberta Boilers Safety Association Reference Syllabus for the first paper of 3rd Class Part B Power Engineering.  
*Prerequisite: Completion of 3rd Class Part A theory or 3A ABSA.*

**PELM 3400**  
**Prime Movers & Auxiliaries**  
4 credits  
This course covers prime movers, air compressors, refrigeration and lubrication as identified in the Alberta Boilers Safety Association Reference Syllabus for the second part of 3rd Class Part B Power Engineering.  
*Prerequisite: Completion of 3rd Class Part A theory or 3A ABSA.*

**PELM 4100**  
**Applied Science**  
4 credits  
Topics include applied mathematics, elementary mechanics and dynamics, elementary thermodynamics, mechanical drawing, administration, industrial legislation, workplace hazardous materials, plant safety and plant fire protection as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part A Power Engineering.

**PELM 4200**  
**Plant Services**  
4 credits  
Areas covered are environment, material and welding, piping and valves, high pressure boiler design, high pressure boiler parts and fittings, high pressure boiler operation and feedwater treatment as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part A Power Engineering.

**PELM 4300**  
**Steam Generation**  
4 credits  
Course includes prime movers and engines, pumps and compressors, lubrication, electricity, controls, instrumentation and computers, heating boilers, and heating systems as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part B Power Engineering.  
*Prerequisite: Completion of 4th Class Part A theory or 4A ABSA.*

**PELM 4400**  
**Prime Movers & Auxiliaries**  
4 credits  
Topics include heating boiler and heating system controls, auxiliary building systems, vapour compression refrigeration, absorption refrigeration, air conditioning, air conditioning systems, boiler maintenance and types of plants as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part B Power Engineering.  
*Prerequisite: Completion of 4th Class Part A theory or 4A ABSA.*

**PEMP 100**  
**Employability Skills**  
2 credits  
This course is designed to provide students with the essential skills necessary to seek, obtain and maintain employment in their relevant field. Topics will include Canadian Employment Standards, Labour Relations and Workers Compensation. Students will acquire the knowledge to effectively communicate in the workplace and conflict resolution methods. Creation of a marketable resume and cover letter in addition to interview strategy techniques.

**PEMP 101**  
**Trades Mathematics**  
2 credits  
This course will provide an overview of metric and imperial systems, basic mathematical functions including fractions, ratios, proportions, percentages, exponents, algebra, trigonometry and logarithms.

**PEMP 102**  
**Trades Science**  
2 credits  
This course will provide an overview of simple machines, properties of matter, air and water. Topics also include review of energy and motion, temperature and heat, magnetism and electricity.

**PEMP 103**  
**Technical Communication**  
2 credits  
An introduction to the concepts of technical communication and report writing. Topics of significance for technical writing such as, summaries, technical definitions and descriptions, process descriptions, instructions and report writing.

**PEMP 104**  
**Safety**  
1 credit  
This course will provide students with an understanding and knowledge of the OH&S legislation, regulations and practices intended to ensure a safe work place, understand the use of PPE and safe practices for climbing, lifting, rigging and hoisting. Hazardous materials and fire protection will also be covered.
PERLS 104  
Introduction to Sociocultural Aspects of Leisure and Sport  
3 credits, 16 weeks, 3 hours lecture  
The study of play, physical education, recreation, sport, and leisure as institutionalized ways in which society organizes and teaches attitudes and skills. Provides an introduction to the importance of sociocultural inquiry and the notion of being critical as an empowering process.

PERLS 105  
Introduction to Sport Administration  
3 credits, 16 weeks, 3 hours lecture, 1 hour lab  
Provides students with an introduction to the management concepts required to successfully administer a sport, recreation or physical activity.

PERLS 204  
Canadian Society of Leisure, Sport & Health  
3 credits, 16 weeks, 3 hours lecture  
An examination of the significant changes which have occurred in leisure and sport specifically over the last century and with particular reference to Canadian society.  
Pre-requisite: PERLS 104

PERLS 207  
Physical Activity and Leisure for Special Populations  
3 credits, 16 weeks, 3 hours lecture, 1 hour lab  
This course provides an introduction to research, theory and practice related to the participation of persons with disabilities in physical activity settings (e.g., sport, exercise, physical education, recreation). It includes consideration of topics such as the importance of participation in physical activities for persons with disabilities, the impact of beliefs and attitudes toward persons with disabilities in physical activity settings, examination of current issues and topics such as appropriate terminology and language, inclusion, disability sport, and advances in research. The course also includes a survey of selected disabilities or differences and consideration for their implications for performance and participation in physical activity settings.

PESS 293  
Introduction to the Movement Activities of Children Aged 5 – 12  
3 credits, 16 weeks, 3 hours lecture  
A study of play and other movement activities including games, gymnastics and dance for children will be covered.

PHIL 101  
Introduction to Philosophy: Values and Society  
3 credits, 16 weeks, 3 hours lecture  
This course provides the student with an introduction to the perennial problems of philosophy through the study and critical discussion of selected classical and modern works. The aim of this course is twofold. The student will be introduced to the domain and method of philosophical inquiry. More specifically the student will examine in some detail the areas of ethics and politics. In these areas the relationship between individuals and individuals and society will be highlighted.

PHIL 102  
Introduction to Philosophy: Knowledge and Reality  
3 credits, 16 weeks, 3 hours lecture  
This course provides the student with an introduction to the perennial problems of philosophy through the study and critical discussion of selected classical and modern works. The aim of this course is twofold. The student will be introduced to the domain and method of philosophical inquiry. More specifically the student will examine in some detail the areas of epistemology and metaphysics. Epistemology is concerned primarily with the nature of knowledge and metaphysics is concerned with the nature of reality.

PHIL 120  
Symbolic Logic I  
3 credits, 16 weeks, 3 hours lecture  
A study of sentential logic, including translation, semantics, decision procedures and natural deduction followed by an introduction to predicate logic, concentrating on translation.  
Note: Not open to students with credit in PHIL 220.

PHIL 125  
Practical Logic  
3 credits, 16 weeks, 3 hours lecture  
Practical Logic refers to the elementary methods and principles for analyzing, evaluating and constructing arguments. The course will focus on theory, explaining the core concepts and theoretical tools necessary for proper philosophical reasoning. This theoretical study will provide an introduction to formal notation, syllogisms, informal fallacies, definitions and common argument forms. The course will also include instruction in the practical use of logic by explaining the skills and procedures used in sound argumentation. This practical exercise will provide basic instruction in writing arguments, evaluating media and applying diagnostic methods to reasoning as it occurs in contemporary debates.
PHIL 160
Contemporary Moral Issues
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to the elementary principles and methods of moral philosophy. An understanding of ethical theory will provide a foundation for discussion of contemporary moral issues. The objectives of the course are to provide the student with an understanding of the ethical theories which ground Western moral intuition and tradition, an appreciation of the methods employed by philosophers with respect to ethical controversies, an ability to critically assess moral arguments, and the skills needed to express moral arguments in oration, interactive dialogue, and written essay.

PHIL 200
Metaphysics
3 credits, 16 weeks, 3 hours lecture
This course examines basic questions concerning the nature of reality. Topics may include existence, materialism and idealism, freedom and determinism, appearance and reality, causality, identity, time and space, universals and particulars.

PHIL 215
Epistemology
3 credits, 16 weeks, 3 hours lecture
This course is designed to provide students with an adequate grounding in the central issues of epistemology, including such topics as the definition of knowledge, skepticism and the limits of human knowledge, the role of perception, memory, and reason as sources of human knowledge, relativism, truth, and the objectivity of knowledge. These and other epistemological issues will be studied through a close reading of three classic inquiries, Plato's Theaetetus, Russell's Problems, and Plantinga's Warrant. Each of these texts contains deep and abiding insights into the central epistemological question, "What is knowledge?" Students will be required to read difficult text, engage in philosophical seminar discussions and express their ideas through critical response essays.

PHIL 250
History and Theory
3 credits, 16 weeks, 3 hours lecture
This course is an historical approach to the study of moral philosophy. The course is a study of classic approaches to the fundamental questions of ethics: What is the ultimate goal of my moral life? What elements of life are intrinsically valuable? How do I determine right and wrong choices? These questions, as well as the concepts of happiness, justice, virtue, duty, friendship, prudence and social responsibility will be explored through studying primary sources of Western ethical reasoning.

PHIL 270
Introduction to Political Philosophy
3 credits, 16 weeks, 3 hours lecture
This course introduces the student to the study of political philosophy. It will concentrate on such central figures in the history of political philosophy such as Plato, Aristotle, Hobbes, Locke, Rousseau, and Marx. Topics include the nature of justice, the nature and justification of political obligation, freedom and authority, and the social contract.

PHIL 382
Philosophy of Law: Social Issues
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to the philosophic study of law with particular emphasis upon the interconnectedness of law and morality. The course will investigate philosophical problems arising at the interface between the legal system and wider social life: problems of legal liability (harm as the limit of legal liability, legal paternalism, legal moralism), the nature of legal liability/responsibility (the mental element in legal liability), civil disobedience, punishment, and censorship.

PHYS 025
Physics 025
6 credits, 16 weeks, 6 hours lecture
Main topics include triangle trigonometry, vectors and vector diagrams, space body diagrams, relative velocity, uniform acceleration, Newton's three laws, inclined planes, pulley systems, friction, work, power, energy, circular motion, interaction between bodies, and introduction to waves. Alberta Education Course Equivalency: Physics 10 and Physics 20
Prerequisite: MATH 10C or equivalent or permission from the Program Chair

PHYS 030
Physics 030
5 credits, 16 weeks, 6 hours lecture, 2 hours lab on alternate weeks
A review of Physics 025, followed by the study of electric and magnetic fields, electromagnetic radiation, and conservation of energy. Alberta Education Course Equivalency: Physics 30
Prerequisite: PHYS 025 or equivalent or permission from the Program Chair
PHYS 114*  
The Universe from a Modern Perspective  
3 credits, 16 weeks, 3 hours lecture  
This course is a qualitative survey of some of the interesting topics in modern physics. The concepts of physics are presented without the mathematical constructs that usually accompany them. Topics to be covered will include Classical versus Quantum views; order versus chaos; Newton’s versus Einstein’s Universe; Particles and Wave nature of matter; Radiation and Nuclear Energy.  
Prerequisite: Math 30-1 or Math 30-2  
Note: This course does not qualify as a prerequisite for 200 or higher level ASTRO, GEOPH, MA PH or PHYS courses. This course is not eligible as a first year physics requirement in Pre-Professional programs i.e. Pre- Med, pre-Dentistry.  
*Pending approval from the University of Alberta

PHYS 124  
Introduction to Motion  
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial, 3 hours lab  
This is an algebra based physics course directed at students in the life and medical sciences. It discusses two distinct types of motion: motion of particles and collective motion (waves). A review of kinematics and dynamics; conservation of momentum and energy; vector forces and bodies in equilibrium; elasticity and fracture; vibrations; circular motion; waves; sound and light; optics; topics in modern physics.  
Prerequisite: Math 30-1, and Physics 20 or equivalent (Physics 30 strongly recommended)  
Note: Credit may be obtained for only one of PHYS 101, PHYS 102 or ENPHY 131 or University of Alberta’s PHYS 108, PHYS 124, or PHYS 144.

PHYS 126  
Fluids, Fields and Radiation  
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial, 3 hours lab  
Physics 126 is a continuation of Physics 124. Fluid statics and dynamics, gases and kinetic interpretation; electrostatics; currents and circuits; magnetic field; electromagnetic induction; electromagnetic radiation (light) and its interaction with matter.  
Prerequisite: PHYS 124  
Note: Credit may be obtained for only one of PHYS 100, PHYS 1130 or the University of Alberta’s PHYS 109, PHYS 126, or PHYS 146.

PHYS 144  
Newtonian Mechanics and Relativity  
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial, 3 hours lab  
Introduction to vectors, kinematics in one dimension; Kinematics in two dimensions, Newton’s Laws of Motion; Work and Energy, Impulse and Collisions, Relativity, J. Rotation of a rigid body about a fixed Axis.  
Prerequisite: Mathematics 31, Physics 30  
Co-requisite: Math 1113 or equivalent  
Note: Credit may be obtained for only one of PHYS 124, PHYS144 or ENPH 131

PHYS 146  
Fluids and Waves  
3 credits, 16 weeks, 3 hours lecture, 1 hour tutorial, 3 hours lab  
Equilibrium and Elasticity, Fluid Statics and Dynamics, Simple Harmonic Motion, Mechanical Waves, Wave Properties of Light Reflection and Refraction, Interference, Diffraction, Quantum Mechanics.  
Prerequisite: PHYS 124 or PHYS 144  
Co-requisite: Math 1115 or equivalent  
Note: Credit may be obtained for only one of PHYS 126 or PHYS 146.

PHYS 235  
Engineering Physics  
3 credits, 16 weeks, 3 hours lecture  
Fundamentals of technology including problem solving, dimensional analysis, significant digits, errors in measurement, and SI system of units will be covered. Course content includes: vectors, kinematics; Newton’s Three Laws of Motion, friction, work, energy, power and efficiency; simple machines; impulse and momentum; temperature scales, and heat; expansion of solids and liquids; and calorimetry and heat transfer; wave theory and sound; optics.

PHYS 261  
Physics of Energy  
3 credits, 16 weeks, 3 hours lecture  
The course will focus on energy resources, human use of those resources, and some of environmental and health consequences. Topics include the nature of energy in its various forms; non-renewable resources, fossil fuels, and resource consumption; thermodynamics of combustion, energy conversion and efficiency; engines and refrigerators; heat transfer and home heating; electricity, hydro power and energy storage; radioactivity and nuclear energy; alternative and renewable resources. Course content is interdisciplinary, touching on aspects of chemistry, geology, and atmospheric science in addition to physics.  
Prerequisite: PHYS 124 and 126, and MATH 1113 or 1114

PHYS 1130  
Wave Motion, Optics and Sound  
3 credits, 16 weeks, 3 hours lecture, 3 hours lab every second week  
3.8 Engineering units for the University of Alberta  
Geometrical optics, optical instruments, oscillations, waves, sound, interference, diffraction, accompanied by related laboratory work.  
Prerequisite: Math 30-1, Math 31 and Physics 30  
Co-requisite: MATH 100 or equivalent  
Note: PHYS 1130 is restricted to Engineering students.
PHYSI 261
Elementary Physiology
6 credits, 32 weeks, 3 hours lecture
This introductory course in human physiology is intended for students in nursing and health-oriented programs. Its objective is the physiological processes which occur in the body, emphasizing how the many systems function and how balance among all the systems is maintained. Common pathologies will be referred to where appropriate as examples of disruptions in homeostasis. Morphological features will be discussed as necessary for an understanding of physiological processes.
Prerequisite: Biology 30 and Chemistry 30

PL SC 221
Introduction to Plant Science
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Principles of plant science for use in agriculture, forestry and environmental sciences. Emphasis on vascular plants in an applied context. Topics include: plant structure and function; reproduction and development; and diversity and management of vegetation and crops.

PN 100
Anatomy & Physiology I
3 credits, 45 hours lecture
Study the organization of the human body and the structures and functions of the body systems that provide support and movement, coordination, and regulation. Learn how body systems work together to maintain homeostasis. Terminology used by health professionals will be introduced. In the Practical Nurse program a final mark of C- is required to progress to PN 105.
Prerequisite: Biology 30

PN 101
Anatomy & Physiology II
3 credits, 45 hours lecture
Study the organization of the human body and the structures and functions of the body systems that provide transport and protection; absorption, diffusion, and excretion; and reproduction. Learn how body systems work together to maintain homeostasis. Terminology used by health professionals and theory and principles related to microbiology will be introduced.
Prerequisite: PN 100

PN 102
Health Education: Individual Health & Wellness
3 credits, 45 hours lecture
Gain an overview of the physical, social, psychological, environmental, and spiritual aspects of personal health and wellness within the context of the community, the Canadian health-care system, and the global environment. Lifestyle choices are introduced as physical and social determinants affecting personal health and the health of others. Learn how to take responsibility for your own health and to advocate for the health of others.

PN 103
Communications for Nursing
3 credits, 45 hours lecture
Examine the fundamentals of communication and the development of interpersonal, therapeutic nurse-patient and professional relationships with members of the interdisciplinary health-care team. Examine factors that influence our ability to communicate effectively and discover communication strategies that can improve our interactions with others. Discover the connections between effective communication, patient safety, and safe, high-quality care. Learn about the teaching and learning process and theories related to communication climates, groups, teams, conflict and conflict management, and intimidation behaviour.

PN 105
Pathophysiology for Health-Care Professions
3 credits, 45 hours lecture
Learn the pathological processes underlying diseases and disorders that produce alterations in human physiologic function across the lifespan. Each pathological process is explained as a concept and examined through examples of typical diseases and disorders. Gain a basic understanding of the diagnosis and management of the disease process associated with pathophysiologic dysfunction.
Prerequisites: PN 100 and PN 101

PN 130
Basic Pharmacotherapeutics
3 credits
This course begins with an introduction to drug classification and regulation—from discovery to the patient. Pharmacodynamic and pharmacokinetic principles will be introduced. Four fundamental domains of drug movement and modification will be studied: drug absorption, distribution, metabolism, and excretion. To illustrate how the principles involved in Pharmacotherapeutics need to be incorporated into professional nursing practice; examples of prototypic drugs from each drug class will be used. Safe, evidence-based practice will be emphasized.

PN 155
Nursing Foundations I: Introduction to Nursing
4 credits, 45 hours lecture, 15 hours lab
Build a foundation for moral and ethical reasoning and develop a knowledge base for nursing practice by exploring the history of nursing, the evolving role of the practical nurse, the Canadian health-care system, and legislative acts that affect nursing practice in Alberta. Examine the professional association and standards of practice to better understand the roles and responsibilities of the practical nurse. Through the introduction of a nursing model and the nursing process, you will learn the critical thinking skills that support decision making in nursing and lead to the delivery of high-quality, safe nursing care.
Co-requisites: PN 102, PN 103 and PN 158
PN 156
Nursing Foundations II: Basic Nursing
7 credits, 45 hours lecture, 60 hours lab
Learn how a nursing meta-paradigm and the nursing process are applied for sound clinical judgment in providing nursing care based on best evidence related to activities of daily living and medication administration. Develop nursing care plans and learn to prioritize nursing care using time management skills. Examine strategies for communicating essential client information to members of the interdisciplinary health care team in simulated clinical settings. A laboratory component is included in which students apply new theory and practice nursing skills related to activities of daily living and medication administration.
Prerequisites: PN 155 and PN 158
Co-requisite: NURSE 115

PN 158
Health Assessment
4 credits, 30 hours lecture, 30 hours lab
Learn and practice procedures based on best evidence for obtaining a health history and conducting a physical examination on a healthy adult. Examine assessment findings for normal structures and functions of the human body. In the laboratory component of this course, apply your newly acquired knowledge. Practice obtaining a health history and demonstrate your physical assessment skills.
Co-requisite: PN 100, PN 101

PN 160
Nursing Practice I: Continuing Care Practice
5 credits, 194 hours practicum
Gain experience as a member of the interdisciplinary health-care team by providing safe, holistic nursing care based on best evidence to clients in a continuing care setting following the standards of practice for a practical nurse. This course involves one week of clinical simulation and four weeks of instructor-supervised clinical practice in a continuing care centre.
Prerequisites: PN 100, PN 101, PN 102, PN 103, PN 105, PN 158, PN 155, Alberta Health Services mandatory certifications, CPR Level C for Health Care Providers, Clear Police Information Check (formerly known as a Criminal Record check) and Vulnerable Sector check, up-to-date immunizations.
Co-requisite: Nurse 115, PN 156

PN 200
Nursing Foundations III: Medical-Surgical Nursing
9 credits, 45 hours lecture, 90 hours lab
Focus on nursing care and related skills based on best evidence for medical-surgical nursing. Build upon previous nursing knowledge and related theory in adapting the nursing approach to the care of the medical-surgical client using a nursing meta-paradigm and the nursing process. Develop leadership skills through the experience of mentorship. A laboratory component is included in which students apply new theory and practice nursing skills related to medical-surgical nursing including parenteral medication administration.
Prerequisite: Successful completion of all first year courses

PN 201A
Nursing Practice II: Acute Care Practice – Medicine
4 credits, 155 hours practicum
Gain experience as a member of the health-care team in providing safe, holistic, nursing care based on best evidence to clients and families in an acute care medicine setting following the standards of practice for a practical nurse. This clinical course involves instructor-supervised practice on an acute care medicine unit.
Prerequisites: Successful completion of all first year courses, Alberta Health Services mandatory certifications, CPR Level C for Health Care Providers, Clear Police Information Check and Vulnerable Sector check, up-to-date immunizations

PN 201B
Nursing Practice II: Acute Care Practice – Surgery
4 credits, 155 hours practicum
Gain experience as a member of the interdisciplinary health-care team by providing safe, holistic, and best-evidenced nursing care to clients in an acute care surgery setting following the standards of practice for a practical nurse. This course involves instructor-supervised clinical practice on an acute care surgical unit.
Prerequisites: Successful completion of all first year courses, Alberta Health Services mandatory certifications, CPR Level C for Health Care Providers, Clear Police Information Check and Vulnerable Sector check, up-to-date immunizations, PN 200

PN 202
Nursing Foundations IV: Maternity Nursing
3 credits, 45 hours lecture
Examine best evidence related to maternity nursing and the care of the expectant family before, during, and after birth of the baby, and care of the newborn. Build upon previous nursing knowledge and related theory in adapting the nursing approach to the care and health promotion of the child-bearing family using a nursing meta-paradigm and the nursing process. Trends and issues in the care of child-bearing clients and their families will also be explored.
Prerequisites: Successful completion of all first year courses, PN 200
Co-requisite: SOCY 100
COURSE DESCRIPTIONS

PN 203
Nursing Foundations V: Pediatric Nursing
3 credits, 45 hours lecture
Examine care based on best evidence related to pediatric clients and their families. Build upon previous nursing knowledge and related theory in adapting the nursing approach and communication strategies required for safe, high-quality nursing care and health promotion of the pediatric client and the family using a nursing meta-paradigm and the nursing process. Trends and issues in the care of pediatric clients and their families will also be explored.
Prerequisites: Successful completion of all first year courses
Co-requisite: PN 202

PN 204
Nursing Foundations VI: Community Nursing
3 credits, 45 hours lecture
Examine family and community theory to acquire the knowledge and skill required to promote the health and well-being of families and communities. Discover the importance of collaboration between the interdisciplinary health-care team, families, and communities to achieve safe, high-quality care based on best evidence. Build upon previous nursing knowledge and related theory in adapting the nursing approach to the care and health promotion of the family and community using a nursing meta-paradigm and nursing process. Trends and issues in the care of families and communities will also be explored.
Prerequisites: PN 200, successful completion of all first year courses.

PN 205
Nursing Foundations VII: Mental Health Nursing
3 credits, 45 hours lecture
Explore legal and ethical considerations and social stigmas related to mental health and illness. Examine care based on best evidence related to clients and their families as they adjust to changes in functioning associated with mental health issues and related treatments. Build upon previous knowledge and related theory in adapting the nursing approach to the care and health promotion of mental health clients and their families using a nursing meta-paradigm and nursing process. Trends and issues in mental health nursing will also be explored.
Prerequisites: Successful completion of all first year courses, PN 200, PSYCH 106

PN 206
Nursing Foundations VIII: Transition to Graduate Nursing
3 credits, 45 hours lecture
Prepare for the transition from a student to graduate. Explore working within the parameters of a health-care organization, labour relations, and the professional association. Learn about power and motivation to build successful teams, types of management and leadership styles, professional development, continued competence, lifelong learning, and quality improvement, all of which contribute to becoming a professional practical nurse in today’s health-care field.
Prerequisites: Successful completion of all previous courses.

PN 207
Nursing Practice III: Focused Practice
3 credits, 116 hours practicum
Integrate your program knowledge, skills, attitudes, and judgements as you gain an understanding of the role of the practical nurse. Apply your knowledge and skills in a clinical experience involving three weeks of instructor-supervised or preceptored clinical practice in one of the following settings: community, rural, maternity, pediatric, or mental health.
Prerequisites: Successful completion of all previous courses, Alberta Health Services mandatory certifications, CPR Level C for Health Care Providers, Clear Police Information Check and Vulnerable Sector check, up-to-date immunizations

PN 208
Nursing Practice IV: Comprehensive Practice
4 credits, 155 hours practicum
Integrate your program knowledge, skills, attitudes, and judgements as you gain an understanding of the role of the practical nurse. Apply your knowledge and skills in a clinical experience in a four-week, preceptored clinical practice as you make the transition from student to graduate practical nurse.
Prerequisites: Successful completion of all previous courses, Alberta Health Services mandatory certifications, CPR Level C for Health Care Providers, Clear Police Information Check and Vulnerable Sector check, up-to-date immunizations

POLSC 101
Introduction to Government and Politics
3 credits, 16 weeks, 3 hours lecture
This is the introductory course in Political Science. Students are encouraged to think critically about how their lives and the world are shaped by power, ideas, interests, rules, and laws. It is intended to provide students with general political awareness and insight, thus making them more informed about the world in which they live. The student will also develop an understanding of key political processes and institutions
POLSC 210
History of Political Thought
6 credits, 32 weeks, 3 hours lecture
This is the introductory course in Political Philosophy. It is intended to introduce students to the enduring questions and problems of political life. It proceeds through an examination of select texts of some of the greatest thinkers of Political Philosophy. A truly engaged reading of these texts can be the most liberating and humanizing of experiences. Through the study of these texts, the student’s understanding of the political thought should deepen.

POLSC 220
Canadian National Government and Politics
6 credits, 32 weeks, 3 hours lecture
This course provides a detailed introduction to Canadian government and politics at the national level. The course examines the institutions, roles, processes and policies of the national government. It is a core course in the Canadian field and is a prerequisite for almost all other courses in Canadian politics.

POLSC 221
Canadian Government
3 credits, 16 weeks, 3 hours lecture
This course is designed to introduce students to Canadian politics and government. It gives non-political science majors some understanding of the major themes, issues and conflicts in Canadian political life. To this end, the course will examine the nature of the parliamentary system and the federal government, its evolution and current status and how this has been shaped by democratic politics in Canada. Emphasis will also be placed on the dynamics of federal-provincial relations and outstanding constitutional issues.
Note: POLSC 221 is not available to students who have taken or plan to take POLSC 100 or POLSC 220.

POLSC 260
International Relations
6 credits, 32 weeks, 3 hours lecture
An introduction to contemporary international relations that attempts to develop an understanding of political events at the international level. The course covers the nature of foreign policy, the dynamics of interactions between states, the causes of war, imperialism, and non-state actors. The course will be run as a seminar.
Prerequisite: POLSC 101 or permission of the Program Chair
Note: This is the core course in the field of international relations and a prerequisite for most 400-level courses in the field.

POLSC 266
Politics of Globalization
3 credits, 16 weeks, 3 hours lecture
The myths and realities of the so-called globalization of the international political economy; the historical organization of the global economy; the rise of transnational corporations; changing relations between the north and the south; new roles for the nation-state; and implications for democracy, citizenship, and political change. The rise of organized global discontent will also be addressed.
Prerequisite: POLSC 101 or permission of the Program Chair
Note: Not open to students with credit in POLSC 110.

POLSC 283
Issues and Trends in World Politics I
3 credits, 16 weeks, 3 hours lecture
This course will introduce students to the study of global politics. Contending theoretical approaches to the subject will be examined, as will major trends in current global politics. Special attention will be given to the role of Canada in global politics.

POLSC 302
Classic Works of Political Thought
3 credits, 16 weeks, 3 hour lecture
This course will examine critically some major works in Political Philosophy not normally covered in Political Science 210.
Prerequisite: POLSC 210 or permission of the Program Chair

POLSC 318
The Politics of Health Care in Canada I
1.5 credits, 8 weeks, 3 hours lecture
This course examines the development of Canada’s health care system, its legislative and philosophical grounds, as well as its financing and delivery.
Note: Open only to students in the Faculty of Nursing.

POLSC 319
The Politics of Health Care in Canada II
1.5 credits, 8 weeks, 3 hours lecture
This course examines current stresses in the Canadian health care system such as challenges to universality and alternative health delivery systems from a comparative perspective.
Prerequisite: POLSC 318
Note: Open only to students in the Faculty of Nursing.

POLSC 332
Introduction to United States Politics and Government
3 credits, 16 weeks, 3 hours lecture
The actors, institutions, and processes of American politics and governance, and the forces that influence them.
### COURSE DESCRIPTIONS

**POLSC 365**  
**Canadian Foreign Policy**  
3 credits, 16 weeks, 3 hours lecture  
This course analyzes Canadian foreign policy, particularly since the Second World War. The focus is on how both domestic and external forces influence the decision-making process.

**POLSC 381**  
**Issues and Trends in World Politics II**  
3 credits, 16 weeks, 3 hours lecture  
Selected issues and trends in world politics are examined. The course will examine how and why states and non-governmental actors (corporations, trans-national actors like Amnesty International, etc.) interact and manage issues including wars, terrorism, globalization, human rights, global poverty, and migration.

**POLSC 391**  
**Political Parties of Canada and Other Western Democracies**  
3 credits, 16 weeks, 3 hours lecture  
This course compares the political parties of Canada with those of some other Western democracies. Both the theoretical aspects of what parties ought to do and the practical aspects of how they do behave in the real world are considered.  
**Prerequisite:** POLSC 220

**PRO 005**  
**Problem Solving: Critical Thinking Skills**  
2 credits, 16 weeks, 2 hours lecture  
Students will learn what it takes to be a critical thinker, and learn what they need to do to become one. Students will identify their values and attitudes, their thinking habits, what a thinking error is, and how to judge ideas. Students will learn how to use these skills at home, work and school.

**PROC 101**  
**Applied Science**  
4 credits  
Topics include applied mathematics, elementary mechanics and elementary thermodynamics, mechanical drawing, administration, industrial legislation, workplace hazardous materials, plant safety and plant fire protection as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part A Power Engineering.

**PROC 103**  
**Steam Generation**  
4 credits  
Course includes prime movers and engines, pumps and compressors, lubrication, electricity, controls, instrumentation and computers, heating boilers, and heating systems as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part B Power Engineering.

**PROC 104**  
**Prime Movers & Auxiliaries**  
4 credits  
Topics include heating boiler and heating system controls, auxiliary building systems, vapour compression refrigeration, absorption refrigeration, air conditioning, air conditioning systems, boiler maintenance and types of plants as identified in the Alberta Boilers Safety Association Reference Syllabus for 4th Class Part A Power Engineering.  
**Note:** Work placement may be outside Wood Buffalo Region.

**PROC 105**  
**Work Experience**  
12 credits  
Six month paid work experience with industry.  
**Prerequisite:** Completion of all 1st term courses.  
**Note:** Work placement may be outside Wood Buffalo Region.

**PROC 210**  
**Chemistry**  
1 credit  
Topics will cover the basics of oil sands chemistry, with an emphasis on basic organic chemistry. The chemistry of solids, fluids and vapours will be emphasized.

**PROC 230**  
**Introductory Process Instrumentation**  
1.5 credits  
This course will introduce the student to the fundamentals of oil sands processes as well as the equipment used. Topics like controllers, pumping, exchangers, and control loops will be covered. Basic simulators and process lab equipment operation will also be covered.

**PROC 232**  
**Advanced Process Instrumentation**  
2 credits  
This course covers the theory behind the equipment and the fundamentals discussed in the flow, measurement of pressure and flow, digital control systems, and introductory and advanced instrumentation simulators and automatic loop control.
PROC 235  
**Upgrading Processes**  
2 credits  
Special topics unique to hydrocarbon processing will be discussed. Topics will include upgrading processes like distillation, fractionation, thermal cracking for cokers, hands-on lab, and computer simulators for hydrocarbon processing.

PROC 250  
**Environmental Management and Processes**  
1.5 credits  
Topics will include environmental control practices and company responsibility and liability under environmental legislation.

PROC 260  
**Work Experience**  
12 credits  
Six month paid work experience with industry.  
Prerequisite: Completion of all second year courses  
Note: Work placement may be outside of the Wood Buffalo Region.

PROC 3100  
**Applied Science**  
4 credits  
Topics include applied math, applied mechanics, thermodynamics, and applied science as identified in the Alberta Boilers Safety Association Reference Syllabus for the first paper of 3rd Class Part A Power Engineering.

PROC 3200  
**Plant Services**  
4 credits  
This course teaches industrial legislation, codes, boiler calculations, fuels and combustion, piping, electrotechnology, electrical calculations, control instrumentation and fire prevention and plant safety as identified in the Alberta Boilers Safety Association Reference Syllabus for the second paper of 3rd Class Part A Power Engineering.

PSYCH 020  
**Psychology 20**  
5 credits, 16 weeks, 5 hours lecture  
This course will focus on personal psychology as a field of scientific research. It will engage learners in understanding personality, behavior, intelligence, emotional issues of adolescents, behavior disorders, heredity and environment, biological influences on behavior and understanding perception.  
Alberta Education Course Equivalency: Personal Psychology 20  
Prerequisite: Social Studies 10 or permission of the program Chair  
Co-requisite: ENGL 020 or ENGL 023 or permission of the program Chair

PSYCH 030  
**Psychology 30**  
5 credits, 16 weeks, 5 hours lecture  
This course will focus on psychology as a scientific discipline and a vibrant research field. It will engage learners in the use of qualitative and quantitative data collection tools and research methods common to psychology and related social sciences. Learners will be acquainted with the use of statistics in the social sciences and an understanding of the ethical guidelines for human research will be emphasized. Examples of modern psychological research will also be examined as case studies. Students will have the opportunity to design and applied research project to show understanding of research principles.  
Alberta Education course Equivalency: Experimental Psychology 30  
Prerequisite: Social Studies 10 or permission of the program Chair  
Co-requisite: ENGL 020 or ENGL 023 or permission of the program Chair

PSYCH 104  
**Basic Psychological Processes**  
3 credits, 16 weeks, 3 hours lecture  
Psychology 104 provides an exciting introduction to the study of human behaviour. This course explores how people sense and perceive the world, learn and remember, think and solve problems, and experience different states of consciousness. We examine how these processes are linked to the workings of the central nervous system (brain). As psychology is a science, we develop an understanding of scientific methodology to facilitate investigation of these phenomena.

PSYCH 105  
**Individual and Social Behaviour**  
3 credits, 16 weeks, 3 hours lecture  
Psychology 105 builds on the content of Psychology 104 through the exploration of four aspects of human psychology including Intelligence, Developmental Processes, Social Psychological Processes, and Clinical Processes. This course examines the nature of intelligence, cognitive and social development throughout the life span, explores the social psychological aspects of a person with specific reference to the self, interpersonal, and group dynamics, and motivation and emotion. In addition, clinical areas of psychology relating to personality, abnormal behaviour, psychotherapy, and health psychology are examined. In Psychology 105, students continue to develop their understanding of scientific methodology through experimental research laboratories.  
Prerequisite: PSYCH 104
PSYCH 106
Psychological Principles for Nursing
3 credits, 16 weeks, 3 hour lecture
This course covers psychological principles and processes as they relate to nursing. Topics include research design and analysis, lifespan development, brain and behaviour, memory and cognitive processing, social psychological processes, personality, psychological disorders and their treatment.
Note: Open only to students enrolled in the Nursing Program. Not open to students with credit in PSYCH 104 or 105.

PSYCH 213
Introduction to Research Methods in Psychology
3 credits, 16 hours, 3 hours lecture, 3 hours lab
Introduction to research methods and the application of statistical procedures in psychological science. Emphasis is on mastering fundamental scientific and technological skills associated with literature review, research design, experimental manipulation, data collection, data analysis, data presentation, data interpretation, and scientific writing. Topics to be studied include advantages and disadvantages of the experimental method, the logic, nature, and problem of control, basics of measurement and types of research designs. In addition, applications of such statistical techniques as the t-test, correlation, simple linear regression, chi square, and selected nonparametrics to the analysis of data obtained with elementary research designs, will be examined in laboratory sessions.
Prerequisite: PSYCH 104 and PSYCH 105

PSYCH 223
Developmental Psychology
3 credits, 16 weeks, 3 hours lecture
Biological, cognitive, and social aspects of psychological development are examined in this course. Special emphasis is placed on prenatal development, infancy, childhood, and adolescence. Topics include heredity and environment, intellectual development and social development.
Prerequisite: PSYCH 104 and PSYCH 105

PSYCH 233
Theories of Personality
3 credits, 16 weeks, 3 hours lecture
Why do people behave as they do? Are people free to choose their own behaviour, are they easily changeable, and are they basically rational beings? How does personality develop and how is it structured? Why do personality problems occur and how can they be solved? In Psychology 233 students will learn about several major paradigms that guide research and theorizing in the area of personality and offer answers to many intriguing questions about human nature. These approaches include the Psychoanalytic, the Neo-psychoanalytic, the Existential- Humanistic, and the Transpersonal paradigms.
Prerequisite: PSYCH 104 and PSYCH 105

PSYCH 238
Introduction to Forensic Psychology
3 credits, 16 hours, 3 hours lecture
This course will provide students with an in-depth introduction to the field of forensic psychology. Forensic psychology explores the relationship between psychology and the legal system, including the courts, prison, parole, and policing. Topics that will be discussed during the course include: offender profiling, forensic assessment, eyewitness testimony, expert testimony, jury decision-making, correctional assessment and treatment, violent offenders, spousal assailants, sex offenders, risk assessment and mental disorder/criminal responsibility.
Prerequisite: PSYCH 104 and PSYCH 105

PSYCH 241
Social Psychology
3 credits, 16 weeks, 3 hours lecture
People are social beings who interact in a variety of ways. We present ourselves to and evaluate each other, influence the attitudes and behaviour of each other, and engage in relationships such as loving and hating, helping and hurting, cooperating and competing. This course covers these and other topics in the area of social psychology.
Prerequisite: PSYCH 104 and PSYCH 105
Note: PSYCH 241 and SOCY 241 may not both be taken for credit.

PSYCH 258
Cognitive Psychology
3 credits, 16 weeks, 3 hours lecture
This course provides an overview of the field of cognitive psychology. Topics include information processing, attention, memory, language processing, reasoning and problem solving. The emphasis will be on developing an understanding of general theoretical concepts that provide a unification of existing evidence and motivate current research.
Prerequisite: PSYCH 104 and STAT 151

PSYCH 267
Sensation and Perception
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to the theoretical and experimental issues associated with the sensory and perceptual experience of the world. The main emphasis is on understanding basic perceptual phenomena, such as the relation between physical stimuli and behaviour/ experience. To this end, we must consider: the nature of the physical stimuli; the anatomy and physiology of the sense organs and receptors; the anatomy and physiology of the neural paths from receptors to the brain; and how the brain processes sensory information.
Prerequisite: PSYCH 104 and STAT 151
**PSYCH 275**  
**Brain and Behaviour**  
3 credits, 16 weeks, 3 hours lecture  
This course is designed as an introduction to the area of Biopsychology. Its focus is the neurobiological bases of behaviour. The first half of the course deals with the anatomy of the nervous system, the physiology of nerve cells, neuroplasticity, and neuropharmacology. The second half examines the physiological mechanisms involved in perception and movement, motivation, emotion, learning, memory, sleep, and psychiatric disorders.  
*Prerequisite: PSYCH 104 and BIOL 30 (or equivalent)*

**PSYCH 282**  
**Behaviour Modification**  
3 credits, 16 weeks, 3 hours lecture  
Psychology 282 introduces students to issues in the field of Learning and behaviour including principles and procedures of classical and operant conditioning. Students in this course will learn practical skills such as how to record behaviour, design, implement, and evaluate behaviour change plans. Much of the lecture materials comes from basic research, however, applied examples will frequently be used and application of principles will often be obvious.  
*Prerequisite: PSYCH 104, no expectations or waivers.  
Note: Not open to students with credit in PSYCH 281.*

**PSYCH 296**  
**Human Sexual Behaviour**  
3 credits, 16 weeks, 3 hours lecture  
PSYCH 296 focuses on the examination of human sexual behaviour. Sexuality is an integral part of our lives. This course presents a scientific foundation for the understanding of the psychological, physiological, social and behavioural aspects of human sexuality. In addition to studying historical changes in sexual practices and attitudes, the course will review and evaluate current research, issues and concerns about sexuality in order to provide contemporary and relevant curriculum material. Topics include psychosexual development, gender roles, sexual orientation, sexual anatomy, alternate methods of reproduction, pregnancy/birth, contraception, sexually transmitted diseases, sex education, sexism, love and attraction, eroticism, sexual abuse, sexual dysfunctions, sex therapy, paraphilia, and sexuality through the life cycle.  
*Prerequisite: PSYCH 104 and PSYCH 105 or permission of Program Chair*

**PSYCH 321**  
**Introduction to Industrial/ Organizational Psychology**  
3 credits, 16 weeks, 3 hours lecture  
Psychology 321 is an applied course designed to introduce students to the subject of Industrial/ Organizational Psychology. Through lectures, applied assignments, and guest speakers, students will examine research and applied topics of concern to Industrial/ Organizational Psychologists. Topics include legal issues in employee selection, job analysis and evaluation, employee selection techniques, performance appraisal, training systems, leadership, group behaviour and conflict, and communication.  
*Prerequisite: PSYCH 104 and PSYCH 105 or permission of Program Chair*

**PSYCH 239**  
**Abnormal Psychology**  
3 credits, 16 weeks, 3 hours lecture  
This course is a detailed introduction to Abnormal Psychology and psychopathology. The topics include distinction between normality and abnormality, diagnosis, etiology and treatment. The classification scheme (DSM IV) developed by the American Psychiatric Association is the basis on which various psychopathological categories are selected for discussion. Current topics such as community mental health, legal and ethical issues are also discussed.  
*Prerequisite: PSYCH 104 and PSYCH 105*

**PSYCH 375**  
**History of Psychology**  
3 credits, 16 weeks, 3 hours lecture  
This course examines the history of psychology from the time of the early Greeks until the present.  
*Prerequisite: A 200-level psychology course. It is recommended that this course be taken by students who have successfully completed several psychology courses.*

**PSYCH 390**  
**Environmental Psychology**  
3 credits, 16 weeks, 3 hours lecture  
This course is the study of the interactions between people and the large-scale environments (places) in which they live, learn, work, and play. Topics will include place selection, travel behaviour, personal space, privacy, and the impact of climate, noise, crowding, interior decoration, and wilderness on mood and behaviour. Also discussed will be designing places to further such goals as preventing crime, increasing social interaction, improving worker performance, and improving morale of people in institutions.  
*Prerequisite: PSYCH 104 and PSYCH 105*
RELST 101
Introduction to World Religions: Western Religions
3 credits, 16 weeks, 3 hours lecture
This course is designed to introduce the three major western religious traditions of Judaism, Christianity, and Islam. Students will be introduced to the historical development, basic beliefs, and contemporary practice of each of these major religions.

REN R 110
Natural Resource Measurement
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
This course is designed to introduce students to the principles and practices of measuring timber, water, range, wildlife, biodiversity, and recreation.

REN R 120
Woody Plants I
3 credits, 16 weeks, 3 hours lecture, 4 hours lab
The identification, classification, distribution, habitat and basic ecology of trees, important shrubs and herbaceous species in forests of Alberta and Canada. There will be field trips to sites where living specimens can be examined. A plant collection is required.

REN R 250
Water Resource Management
3 credits, 16 weeks, 3 hours lecture
This course encourages students to examine the global perspective of supply of and demand for water, basic hydrologic principles, concepts in water management, human intervention in the hydrologic cycle and environmental issues related to this intervention. The student will be expected to conduct library and/or field research and to report on their results.

SCIE 010
Science 010
5 credits, 16 weeks, 5 hours lecture
This course is a grade 10 equivalency general science course designed to prepare students for entry into Biology 025, Chemistry 025, and Physics 025. It is especially recommended for those who have been away from high school science for 3 or more years. The course reviews basic concepts of math and science which are essential for success at the 025 level, including the metric system and the scientific method, while fostering a positive attitude toward the study of science and math. Co-requisite: Grade 9 program of studies or equivalent or AFL 009 and AFM 009

SCIE 030
Science 30
5 credits, 16 weeks, 6 hours lecture
Science 30 provides students an opportunity to investigate and analyse topics in the area of Biology, Chemistry and Physics, with a particular focus on environmental interactions. Topics include: electromagnetic field theory and its application in motors, generators and transformers; the impacts of acids and bases, organic compounds and air pollutants on aquatic and terrestrial ecosystems; and the principles of heredity and genetics and the immune and circulatory systems.
Pre-requisite: SCIE 010
Co-requisite: MATH 20 1

SOCY 020
Sociology 020
5 credits, 16 weeks, 5 hours lecture
A study of human relationships, human behaviour, social institutions, culture, minorities, mass communication, populations, mass society, modern society, and the future of society.
Alberta Education Course Equivalency: Sociology 20
Prerequisite: ENGL 010 or ENGL 013

SOCY 100
Introductory Sociology
3 credits, 16 weeks, 3 hours lecture
As an introduction to the discipline of sociology, this course will discuss and attempt to answer a number of fundamental questions about societies in general and Canadian society in particular. Some of these questions are: What is sociology and how did it emerge? What is culture and how it is transmitted? What are the sources of inequality and how does society deal with inequality? What are the functions of social institutions such as family, economy, education and polity? How do population change, urbanization, social and political movements change the nature of society?

SOCY 101
Canadian Society
3 credits, 16 weeks, 3 hours lecture
This course examines the development of Canadian society: including such topics as French-English relations, regionalism, relations with the USA, native rights, Canadian mosaic, inequalities, and conflicts.
SOCY 102  
**Social Problems**  
3 credits, 16 weeks, 3 hours lecture  
The objective of this course is to analyze the important social problems confronting industrial societies in general and North American society in particular. Determinants of social problems and their sustaining factors will be analyzed from a theoretical perspective. While the emphasis is on sociological explanations, an interdisciplinary approach will be used wherever applicable. Social problems surrounding major social institutions such as family, economy, education and polity as well as social issues related to inequality, environment, technology and deviance will also be dealt with in sufficient detail.  
**Prerequisite:** SOCY 100

SOCY 224  
**Sociology of Deviance and Conformity**  
3 credits, 16 weeks, 3 hours lecture  
This course will examine the processes involved in defining behaviour patterns considered to be deviant. Various biological, psychological, and more importantly sociological factors that influence conformity and deviance will be analyzed in detail. In addition, selected varieties of deviance such as alcoholism, drug abuse, sexual deviance, mental illness and public reaction to such deviances will also be discussed.  
**Prerequisite:** SOCY 100 or SOCY 102 or permission of Program Chair

SOCY 241  
**Social Psychology**  
3 credits, 16 weeks, 3 hours lecture  
People are social beings who interact in a variety of ways. We present ourselves to and evaluate each other, influence the attitudes and behaviour of each other, and engage in relationships such as loving and hating, helping and hurting, cooperating and competing. This course covers these aspects of social interaction.  
**Prerequisite:** One of SOCY 100, SOCY 102 or PSYCH 104 and PSYCH 105  
**Note:** SOCY 241 and PSYCH 241 may not both be taken for credit.

SOCY 251  
**Population and Society**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to demography in its formal and social aspects. The main focus of the course is the impact of demographic variables (fertility, mortality, and migration) on the size, composition and distribution of populations. Differing population concerns of more developed and less developed countries and their respective policy responses also will be analyzed in detail. In addition, the course will also introduce rudimentary methods of demographic analysis.  
**Prerequisite:** SOCY 100

SOCY 260  
**Inequality & Social Stratification**  
3 credits, 16 weeks, 3 hours lecture  
This course is intended to provide a detailed theoretical and historical introduction to social stratification. Theoretical contributions of classical and contemporary sociologists will be the primary focus of the first part of the course. The second part will concentrate on the analysis of social inequality in Canada, with special emphasis on social mobility and poverty in Canada.  
**Prerequisite:** SOCY 100

SOCY 261  
**Social Organization**  
3 credits, 16 weeks, 3 hours lecture  
This course is a theoretical (classical as well as contemporary) study of the process of social organization. Primary emphasis is on the emergence of social organization, its sources of stability, conflict and change.  
**Prerequisite:** SOCY 100 or SOCY 102

SOCY 269  
**Introduction to Sociology of Globalization**  
3 credits, 16 weeks, 3 hours lecture  
This course is an introduction to the concept, processes and dimension of globalization and its possible consequences on societies North and South and on people inhabiting them. In addition, various theoretical perspectives on globalization and the possible alternatives to the process also will be examined.  
**Prerequisite:** SOCY 100

SOCY 271  
**The Family**  
3 credits, 16 weeks, 3 hours lecture  
This course consists of the historical and cross-cultural study of the structure and functions of the family. The institutional characteristics and current trends in the family within contemporary societies are examined closely. Special emphasis is placed on current problems and issues regarding the Canadian family and its future prospects.  
**Prerequisite:** SOCY 100 or permission of the Program Chair

SOCY 301  
**Sociology of Gender Roles**  
3 credits, 16 weeks, 3 hours lecture  
This course is a study of gender roles from the perspective of social inequality. It will examine the explanations of gender differences from an interdisciplinary perspective, with particular emphasis on sociological explanations. A brief look at historical as well as cross-cultural gender inequalities will also be attempted. The primary focus of the course is on the gender differentiation which exists in major social institutions such as family, economy, polity, education and religion, with special reference to contemporary Canadian society.  
**Prerequisite:** SOCY 100
COURSE DESCRIPTIONS

SOCY 304
Sociology of Sports
3 credits, 16 weeks, 3 hours lecture
This course examines the profound influence sports has on social life in Canada and in the global community. A number of theoretical perspectives will be utilized to analyze the impact of sports on societies. Inequalities (gender, social class, ethnicity, age, etc.) and deviances (illicit drugs, violence, sexual exploitation, gambling, etc.) in the context of sports will be the primary focus of the course. The impact of sports on various social institutions (family, education, economy, polity, religion, health care) also will be analyzed in detail. While the main emphasis is on North American society, the growing significance of sports in the global context also will be discussed.
Prerequisite: SOCY 100

SOCY 352
Population, Social and Economic Development
3 credits, 16 weeks, 3 hours lecture
This course will analyze the close interrelationships that exist between economic, social and demographic variables in the developmental process of a country. While quantitative population problems of the Third World are the primary focus, education, health, aging and obesity, which are of significant relevance in advanced countries, will also be discussed in appropriate detail.
Prerequisite: SOCY 100

SOCY 363
Sociology of Work and Industry
3 credits, 16 weeks, 3 hours lecture
Sociological analysis of the changing nature and content of work, its diversity of industrial contexts and organizational forms, and its consequences for individuals institution and society as a whole from Canadian and comparative perspectives.
Prerequisite: SOCY 100

SOCY 368
Canadian Ethnic and Minority Group Relations
3 credits, 16 weeks, 3 hours lecture
This course examines the ethnic factor in Canadian society. Major theoretical concepts are used to explore immigration, ethnic diversity, ethnic relations and ethnic stratification. Selected case studies from other diverse societies provide a comparative perspective.
Prerequisite: SOCY 100 or SOCY 102

SOCY 375
Sociology of Aging
3 credits, 16 weeks, 3 hours lecture
The purpose of this course is to examine the process of aging from social, cultural and demographic perspectives. The focus is on the social gerontological aspects of aging as opposed to the developmental aspects. The course will concentrate on the impact of aging on the self-concept of the elderly, and how they and the institutions and activities in which they participate, are affected by the process of aging. While the primary emphasis of the course is on aging in Canada, the cross cultural issues will also be discussed in sufficient detail.
Prerequisite: SOCY 100 or permission of the Program Chair

SOCY 376
Sociology of Religion
3 credits, 16 weeks, 3 hours lecture
This course is an introduction to the study of the Sociology of Religion. This course will concentrate on the analysis of religion as a social phenomenon, classical and contemporary theories of religion, nature and structure of religious organizations, relationship between religion and other social institutions, influence of religion in promoting and preventing social change, the role of religion in social integration and social conflict as well as a discussion of the future of religion in modern society.
Prerequisite: SOCY 100

SOILS 210
Introduction to Soil Science and Soil Resources
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
An examination of the elementary aspects of soil formation, soil occurrence in natural landscapes, soil classification, soil resource inventory, basic morphological, biological, chemical and physical characteristics employed in the identification of soils and predictions of their performance in both managed and natural landscapes.
Prerequisite: Must have completed a university-level course in life or natural sciences. A university-level chemistry course is strongly recommended.

SOST 010
Social Studies 010
5 credits, 16 weeks, 5 hours lecture
Students will explore multiple perspectives on the origins of globalization and the local, national and international impacts of globalization on lands, cultures, economies, human rights and quality of life. Students will examine the relationships among globalization, citizenship and identity to enhance skills for citizenship in a globalizing world. The infusion of multiple perspectives will allow students to examine the effects of globalization on peoples in Canada and throughout the world, including the impact on Aboriginal and Francophone communities.
Alberta Education Course Equivalency: Social Studies 10
Co-requisite: ENGL 010 or ENGL 013 or permission from the Program Chair
SOST 030
Social Studies 030
5 credits, 16 weeks, 6 hours lecture
Social Studies 030 explores the origins and complexities of ideologies. Students will investigate, analyze and evaluate government policies and actions and develop individual and collective responses to contemporary local, national and global issues.

Alberta Education Course Equivalency: Social Studies 30
Prerequisite: ENGL 020 or ENGL 023, and SOCY 020 or SOST 010 or equivalent or permission from the Program Chair

SOWK 110
Introduction to Human Services and Basic Counselling
3 credits, 16 weeks, 3 hours lecture
This course will introduce the student to the broad range of opportunities available in the Human Services field. Additionally, the course will introduce the student to basic professional counselling skills, preparing them to enter into a professional helping role.

SOWK 120
Rural and Northern Practice
3 credits, 16 weeks, 3 hours lecture
This course will explore the role of the social worker in Canadian rural, northern and remote communities and how urbanization and industrialization has impacted the development of these areas and its people.

SOWK 125
Social Work Practice from an Anti-Oppressive Perspective
3 credits, 16 weeks, 3 hours lecture
In this introductory course, concepts that address oppression and oppressed people, from historical and contemporary perspectives, are applied to practice models. In particular, issues associated with internalized dominance and oppression are explored. Different anti-oppressive theories and perspectives are applied to provide a framework for practice. Students will use self-reflection and will share their own experiences to learn about strategies to promote anti-oppressive policy and practice.

SOWK 130
Addictions and Mental Health
3 credits, 16 weeks, 3 hours lecture
This course will examine current addictions and mental health theories and the role of the social worker in these areas of practice. The learner will also explore the impacts addictions and mental health disorders have on individuals, families and communities.

SOWK 150
Practicum IA
3 credits, 180 hours
The student will demonstrate competency of acquired theoretical skills as applied in a field placement. Practica are organized with consideration of relevant personal or practice backgrounds, learners’ academic needs, areas of interest and organization fit. Subject to certain conditions, students may also complete their practicum in their workplace. As part of this course, learners will be supported through scheduled discussions with their practicum instructor and peers. This instructor-guided reflective, integration seminar is designed to support experiential learning.

SOWK 160
Practicum IB
3 credits, 180 hours
The student will demonstrate competency of acquired theoretical skills as applied in a field placement. Practica are organized with consideration of relevant personal or practice backgrounds, learners’ academic needs, areas of interest and organization fit. Subject to certain conditions, students may also complete their practicum in their workplace. As part of this course, learners will be supported through scheduled discussions with their practicum instructor and peers. This instructor-guided reflective, integration seminar is designed to support experiential learning.

SOWK 201
Introduction to Social Welfare and Social Work
3 credits, 16 weeks, 3 hours lecture
This course will provide an opportunity for students to gain an understanding of social welfare in its broadest terms and the profession of social work within this realm. This course will introduce students to the professional values, ethics, knowledge bases, roles, responsibilities, fields of practice, and practice settings of social work; encourage students to critically examine their beliefs, values, and attitudes in relation to society of which they are members; and enable students to explore their individual interests within the profession of social work. The complexity of social issues and the concepts of diversity, empowerment, and advocacy will also be emphasized.

SOWK 210
Social Policy
3 credits, 16 weeks, 3 hours lecture
This theory course provides in-depth knowledge and understanding of social policy and its relationship to and impact on human services work. Social policy concepts are discussed and then applied to a variety of Canadian and Indigenous policy issues and societal trends. The benefits and disadvantages of established social policies are examined from the perspectives of marginalized groups. Students are encouraged to raise issues and cite examples from their own experiences and to examine them in light of historical and current political realities.
SOWK 220
Practice with Families
3 credits, 16 weeks, 3 hours lecture
This course will explore theories and trends in family practice from a generalist approach. Students will obtain an understanding of family assessment, dynamics, development, and evaluation and how these concepts apply to different cultures and social systems. In addition, students will also explore the role of the social worker and how to apply various theories and concepts to practice.

SOWK 225
Social Work in Organizations
3 credits, 16 weeks, 3 hours lecture
This course will assist students to identify and understand the role of social workers as managers within many types of organizations. Students will learn the importance of administration in organizations that provide social services and the relationship between services and the implementation of various policies. The course will also examine the structure and function of organizations, and the issues of development and change. Students will observe and comment upon the issues addressed by multicultural organizations and the challenges that staff in these organizations face. They will be able to understand the major functions of management and their relevance. Questions surrounding values and ethics in the workplace will be addressed. Attitudes and issues relevant to social work will also be examined in light of the different responsibilities of the social work manager.

SOWK 230
Community Development
3 credits, 16 weeks, 3 hours lecture
This course will introduce the student to the basic principles, concepts, techniques, processes, history and models of community development from a Canadian social work perspective.

SOWK 235
Social Work with Groups
3 credits, 16 weeks, 3 hours lecture
This course focuses on the processes and dynamics of group work in social work practice. The theoretical underpinnings of group work are explored with an emphasis on values and practices that differ across cultures and consequently impact group work. A variety of group types, phases of group development, intervention techniques, and leadership qualities are examined. Students will apply concepts of group work in the classroom and will have opportunities to practice with and observe groups.

SOWK 250
Practicum IIA
3 credits, 180 hours
The student will demonstrate competency of acquired theoretical skills as applied in a field placement. Practica are organized with consideration of relevant personal or practice backgrounds, learners’ academic needs, areas of interest and organization fit. Subject to certain conditions, students may also complete their practicum in their workplace. As part of this course, learners will be supported through scheduled discussions with their practicum instructor and peers. This instructor-guided reflective, integration seminar is designed to support experiential learning.

SOWK 260
Practicum IIB
3 credits, 180 hours
The student will demonstrate competency of acquired theoretical skills as applied in a field placement. Practica are organized with consideration of relevant personal or practice backgrounds, learners’ academic needs, areas of interest and organization fit. Subject to certain conditions, students may also complete their practicum in their workplace. As part of this course, learners will be supported through scheduled discussions with their practicum instructor and peers. This instructor-guided reflective, integration seminar is designed to support experiential learning.

SPCH 207
Developing Professional Speaking Skills
3 credits, 16 weeks, 3 hours lecture
This second-year communications course focuses on the development of students’ skills in speaking to a variety of audiences. Students will apply principles of communication theory to plan effective presentations and to present technical information in a professional and polished manner. In addition, they will practice using current technology to support oral communication skills, and they will adapt presentation techniques for different listeners and situations.
Prerequisite: WRITE 103

SPE 005
Advanced Communication
2 credits, 16 weeks, 2 hours lecture
This is a continuation of COM 005. Students will learn to enhance the communication skills introduced in COM 005. They will practice giving and receiving information clearly in home, school and workplace. They will learn to give short presentations. They will work on their assertiveness skills and increase their self-esteem. Personal rights and responsibilities will also be dealt with.
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Weeks</th>
<th>Lecture Hours</th>
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<td>STAT 141</td>
<td>Introduction to Statistics</td>
<td>3</td>
<td>16</td>
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<td>STAT 151</td>
<td>Introduction to Applied Statistics I</td>
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<td>STR 005</td>
<td>Stress and Time Management Skills for School and the Workplace</td>
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<td>Academic Survival Skills</td>
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<td>Life Management Skills I</td>
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<td>Employability Skills I</td>
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<td>TRAN 003</td>
<td>Individualized Academic Programming I</td>
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<td>TRAN 004</td>
<td>Work Experience</td>
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<td>Individualized Academic Programming II</td>
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</table>

Note: The minimum progression grade is C-. Not all courses are offered each year.
COURSE DESCRIPTIONS

WKEX 901
Engineering Work Term
9 credits
This course is a four-month work placement for students enrolled in the first year of the University Studies Engineering Co-op Education program. In this semester students will be employed by a public or private sector organization to gain on-the-job experience in industry. In order to fulfill the course requirements, students will also be required to complete a formal work report at the end of the placement, as well as meet with the Co-operative Education Coordinator/Instructor at least twice during the work term.

WRITE 103
Scientific Writing
3 credits, 16 weeks, 3 hours lecture
This course provides intensive writing practices to help students improve their ability to communicate clearly in writing. By studying examples and applying principles of scientific writing to a variety of contexts, students will develop their skills in writing expository, analytical, technical, and persuasive prose. They will also learn to analyze and evaluate argumentation and to apply those skills to their own written and oral presentations.
Prerequisite: English 30-1

ZOOL 250
Survey of the Invertebrates
3 credits, 16 weeks, 3 hours lecture, 3 hours lab
Invertebrate species constitute over ninety-five percent of the animal kingdom. The functional anatomy and life cycles of the major invertebrate taxa are examined in this course. Evolutionary histories and the relationships between the various groups are emphasized.
Prerequisite: BIOL 108
Albert, Michael J (Misha)
BA (Waterloo), MFA (York), GDVT (York)
Instructor, Visual and Performing Arts
School of Arts, Science, Business and Education

Applin, Madge
RN, BN (Memorial)
Instructor – Nursing & Allied Health Studies

Archer, Sara
Mines Ops Certificate
Instructor, Haul Truck
School of Trades & Heavy Industrial

Bessey, Sandra
BA, BEd (Memorial)
Instructional Mentor/Curriculum Designer
Learning Innovation and Library Services

Black, Linda
BA (Memorial), BEd (Alberta), MEd (Toronto)
Instructor – Childhood Studies

Brake, Stephanie
BSW (British Columbia), MSW (Memorial)
Instructor, Social Work
School of Health, Wellness and Human Services

Breen, Kevin
Jvy, Red Seal Certified Carpenter
Instructor – Carpentry, MCTP, Millwright & CCL
Chair – Construction Trades

Brooks, Lawrence
Instructor, Power Engineering/Process Operations
School of Trades & Heavy Industrial

Brown, Melissa
RN, BN (Calgary)
Instructor – Nursing & Allied Health Studies

Buller, Sarah
MSW (York), BSW (Hons) (King’s), BA, (Ontario), Coordinator & Instructor – University Studies
Social Work Diploma

Butz, Dorsey W
BVoc/TecEd (Regina)
Instructor, Heavy Equipment Technician
School of Trades & Heavy Industrial

Carreiro, Michelle
BA (Victoria), MEd (UBC)
Instructor – Childhood Studies

Cherian, Leni B
BEng (Cochin), MEng (Mumbai)
Instructor, College & Career Prep
School of Career and Education Access

Clarke, Lynn
BEd (Alberta), MEd (Prince Edward Island)
Instructional Mentor/Curriculum Designer
Research & Learning Innovation Centre

Clarke, Maureen
TC (Alberta), BEd (Alberta)
Instructor, Fort Chipewyan - Sessional 8
School of Arts, Science, Business and Education

Collins, Patricia
BSc, MSc, Ed Dip (Victoria)
Instructor – College & Career Prep
Academic Upgrading

Cook, John
3rd & 4th Class Power Engineer, Adult Education Certificate
Chair - Instructor, Power Engineering/Process Operations
School of Trades & Heavy Industrial

Corcoran, Dave
Red Seal Certified Welder
Instructor – Heavy Equipment

Cox, Ryan
BA, MA (Windsor), PhD (Minnesota)
Instructor, University Studies
School of Arts, Science, Business and Education

Davis, Norma Jean
BA, BEd (St. Thomas)
Instructor – Academic Upgrading
Fort Chipewyan

De Alwis, Handun N
MSc (Calgary), BSc (Sri Lanka)
Instructor, Power Engineering/Process Operations
School of Trades & Heavy Industrial

Decker, Trina
RN, BScN
Instructor, Nursing & Allied Health Studies
School of Health, Wellness and Human Services

DeCourville, Cassandra
BA, Bed, MEd (UNB)
Disabilities Counselor

De Villiers, Dr. Jean-Pierre
BSc (Hon), PhD (Alberta)
Instructor – University Studies
Physics

Dimingu, Henry
MAcc (Brook)
Instructor, Business
School of Arts, Science, Business and Education
Dingley, Louis  
BSc (Trent), MSc (Memorial)  
Chair – University Studies Science  
Instructor – University Studies Psychology  

Duncan, Sherry  
BEd (Saskatchewan)  
Instructor, Childhood Studies  
School of Arts, Science, Business and Education  

Duraiswamy, Chithra  
MEd (Madras), MSc (Annamalai)  
Instructor – College Prep Academic Upgrading  

Elliott, Mark S  
EdD, MA, BA  
Learning & Development Specialist  
Learning Innovation & Library Services  

Fenerty, Allan  
Red Seal Certified Motor Mechanic  
Red Seal Certified Heavy Duty Mechanic  
Instructor – Heavy Equipment Technician  

Ferguson, Richard G  
Jny. Red Seal Certified Heavy Equipment Technician  
Automotive Service Technician  
Instructor, Heavy Equipment Technician  
School of Trades & Heavy Industrial  

Forrest, Kyle  
Jny. Red Seal Certified Electrician  
Instructor – Electrical  

Fuentes, Cristina  
BA (Aguascalientes), MA (Calgary)  
Instructor, Business  
School of Arts, Science, Business and Education  

Fung, Allen  
BA (Concordia)  
Instructor – College & Career Prep Academic Upgrading  

Gariepy, Marion  
BA(Western), BEd(Ottawa)  
Acting Chair - Instructor, Fort Chipewyan  
School of Arts, Science, Business and Education  

Gauthier, Tony  
Jny. Red Seal Certified Heavy Equipment Technician  
Automotive Service Technician  
Instructor – Heavy Equipment Technician  

Gillett, Aaron  
BA (British Columbia)  
Jny. Red Seal Certified Electrician  
Instructor – Electrical  

Gill, Leslie  
Jny. Red Seal Certified Electrician, Master Electrician  
Chair - Instructor, Electrical  
School of Trades & Heavy Industrial  

Goodwin, David  
Jny. Red Seal Certified Welder  
Welding Instructor/Examiner  
School of Trades & Heavy Industrial  

Goremucheche, Farai  
MSc (Manchester)  
Instructor, Business  
School of Arts, Science, Business and Education  

Grantham, Sharon  
BScN, RN (Vancouver Island )  
Coordinator HCA Program/Instructor – Nursing & Allied Health Studies  

Gresku, Csilla  
MSc, BA Sc (Hons) (Hamilton)  
Learning Strategist  
Student Services  

Hanson, Peter  
MEd (Prince Edward Island), BSc (Zimbabwe)  
Instructor – Instructional Design/Faculty Mentor Research & Learning Innovation Centre  

Harmer, Guy  
BA, MA (Calgary), MA (Dallas)  
Dean – School of Arts, Science, Business and Education  

Helgason, Melodee  
BS (Minnesota)  
Instructor – Academic Upgrading  
Gregoire Lake  

Hennings, Norman  
Jny. Red Seal Certified Welder  
Instructor, Welding  
School of Trades & Heavy Industrial  

Hlina, Joanne  
BA (Hons), MA (British Columbia)  
Instructor – Office Administration  

Howlett, Leslie  
Certificate of Qualification Heavy Equipment Operator  
Instructor, Trades Safety  
School of Trades & Heavy Industrial
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Hydomako, Brent</td>
<td>Jny. Red Seal Certified Plumber, Jny. Red Seal Certified Steamfitter/Pipefitter, Instructor – Steamfitter/Pipefitter</td>
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<tr>
<td>Ingram, Alexander</td>
<td>Instructor, Trades Safety, School of Trades &amp; Heavy Industrial</td>
</tr>
<tr>
<td>Jacques, Jane</td>
<td>BEd, MA (Alberta), Instructor – University Studies, English</td>
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<td>Jones, Martin</td>
<td>Instructor, Electrical, School of Trades &amp; Heavy Industrial</td>
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<td>Kennedy, Christel</td>
<td>BA (Memorial), BEd (Memorial), Instructor – College &amp; Career Prep, Academic Upgrading</td>
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<td>Kerr, Kimberly</td>
<td>BSc (Hons) (Western Ontario), Information Librarian, Learning Innovation and Library Services</td>
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<tr>
<td>Kimball, Jeff</td>
<td>Jny. Red Seal Certified Heavy Equipment Technician, Instructor – Heavy Equipment Technician</td>
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<tr>
<td>Kostiuk, Kayla</td>
<td>RN, BScN, Instructor, Nursing &amp; Allied Health Studies, School of Health, Wellness and Human Services</td>
</tr>
<tr>
<td>Langager, Gina D</td>
<td>BA (Alberta), AGDM (Athabasca), MBA (Athabasca), Chair - Instructor, Business Administration &amp; Office Administration, School of Arts, Science, Business and Education</td>
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<td>Lawlor, Peter</td>
<td>Dean – School of Trades &amp; Heavy Industrial</td>
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<td>Lawrence, Valetta</td>
<td>RN, BScN (Alberta), MHST (Athabasca), Instructor – Nursing &amp; Allied Health Studies</td>
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<td>Leach, John</td>
<td>Instructor, Heavy Equipment Technician, School of Trades &amp; Heavy Industrial</td>
</tr>
<tr>
<td>LeBlanc, Jodi</td>
<td>Bachelor Human Ecology, Major in Family Studies, Minor Psychology (Mount St. Vincent), Certificate in Counselling, Disabilities Counselor</td>
</tr>
<tr>
<td>Lee, Andrew</td>
<td>Jny. Certified Crane &amp; Hoist Equipment Operator Jny. Certified Heavy Equipment Technician, Instructor, Crane &amp; Hoisting Equipment Operator, School of Trades &amp; Heavy Industrial</td>
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<tr>
<td>Legaree, Dr. Blaine</td>
<td>BSc (Hons), PhD (Guelph), Instructor – University Studies, Biology</td>
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<td>Lepine, Sabrina</td>
<td>ECE, Preschool Coordinator, Childhood Studies</td>
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<tr>
<td>Lewandoski, Dennis</td>
<td>Jny. Certified Crane &amp; Hoisting Equipment Operator, Mobile Crane &amp; Tower Crane, Instructor – Crane &amp; Hoisting Equipment Operator</td>
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<tr>
<td>Lovell, Larry</td>
<td>Instructor, Welding, School of Trades &amp; Heavy Industrial</td>
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<td>Lowndes, Janet</td>
<td>BEd (Saskatchewan), MAEd (Queensland), Chair – Aboriginal Education, Access, &amp; College and Career Prep</td>
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<td>Lysak, Tania</td>
<td>RN, BScN (Victoria), MN (Queensland), Instructor, Nursing &amp; Allied Health Studies, School of Health, Wellness and Human Services</td>
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<td>Mason, Linda</td>
<td>TC (Sheffield), Instructor, Fort McKay - Sessional 8, School of Career and Education Access</td>
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<td>McCann, Jaime L</td>
<td>Jny. Red Seal Certified B Pressure Welder, Welding Instructor/Examiner, School of Trades &amp; Heavy Industrial</td>
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<td>McCormick, David</td>
<td>1st Class Power Engineer, Instructor – Power Engineering/Process Operations</td>
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<td>MacDougall, Donna</td>
<td>RN, BScN (St. Francis Xavier), MN (Queensland), Instructor – Nursing &amp; Allied Health Studies</td>
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<td>RN, BN (Athabasca), MSN (Phoenix), Chair – Instructor – Nursing &amp; Allied Health Studies</td>
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<td>Maynard, Gracie</td>
<td>MEd (Acadia), BEd, BA (Memorial), Dean – School of Career and Education Access</td>
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<td>McGladdery, Kevin J</td>
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<td>Moffatt, Hope</td>
<td>BEd (Calgary), ECS Dip. (Alberta), MA (Pacific Oaks)</td>
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<td>Morin, Matthew</td>
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<td>Nielsen, Clayton</td>
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COLLEGE FACULTY AND STAFF

Roberts, Laura
BA (Hons) (Alberta), MA-Political Science (Germany), MSc (Netherlands), MA-Social Science (Ireland), MA-Sociology (Spain)
Instructor – University Studies Sociology & Political Science

Rodgers, Kevin
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School of Career and Education Access

Rodgers, Sarah
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Academic Upgrading

Rondot, Gerri
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School of Career and Education Access

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Schlender, Randy
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Heavy Equipment Technician & Machinist
Instructor – Millwright

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Schulz, Jason
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Schwab, Erin
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Chair – Heavy Equipment Technician

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Environmental Sciences

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Sparkes, Louis
3rd Class Power Engineer Certificate
Jny. Red Seal Certified Heavy Equipment Technician
Instructor – Heavy Equipment Technician

Starkes, Arlene
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Stacey, Darren
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Stewart, Gregory
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Taylor, Bret
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Instructor – Carpentry

Thompson, Vincella
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School of Arts, Science, Business and Education

Tweten, Pamela
Jny. Red Seal Certified Electrician
Instructor, Trades Safety
School of Trades & Heavy Industrial
## College Faculty and Staff

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<td>Wall, Aimee</td>
<td>Various trainer certificates required for instruction in this area</td>
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<td>Wedlock, Amy</td>
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<td>Wenaus, Pam</td>
<td>BA (Regina), Advanced Cert. (SIAST)</td>
<td>Instructor – Office Administration, Office Software Specialist</td>
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<td>Whalen, GillianM</td>
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<td>Wills, Kevin B</td>
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GLOSSARY

**Academic Penalty** Students who withdraw after the half-way point of the semester or session will receive a grade of “WF” (Withdraw/Fail) in their course(s) which will be calculated as 0.0 GPA on the official transcript.

**Academic Schedule** A schedule of events and deadlines important to students and prospective students, covering the period of the College's academic year, July 1 to June 30.

**Academic Year** The term used to describe the twelve-month period from July 1 of one year to June 30 of the following year.

**Admission or Readmission** Acceptance of a person (who has formally applied to attend the College) into a specified program.

**Admission Requirements** Sometimes called entrance requirements, are the academic background required for admission to a program of study at the College. Some examples of admission requirements are: a high school diploma, letters of reference, Mathematics 30.

**Alberta Resident** A resident of Alberta is defined as a Canadian Citizen or Permanent Resident (Landed Immigrant) who has been a continuous resident in the Province of Alberta, the Yukon, the Northwest Territories or Nunavut for at least one year immediately before the first day of classes of the term for which admission is sought. The one-year residence period shall not be considered broken where the admission office is satisfied that the applicant was temporarily out of the province on vacation, in short-term employment, or as a fulltime student. Applicants on study permit cannot establish residence during a period as a full-time student in an Alberta secondary or postsecondary institution because a stay under study permit is considered to be a visiting period.

**Alumnus** A former student or graduate of the College.

**Auditing Students** are permitted to attend individual courses on the understanding that, except with the permission of the instructor, they may not participate in the class discussion. No assignments or examinations are required and no credit will be granted for the course. Change in classification from an Auditing student to a Regular student is permitted only within the first two meetings of the class.

**Calendar** An annual publication of academic regulations, schedules, programs of study and course descriptions.

**Certificate** The recognition awarded to a student who has completed all the requirements of a designated program that is normally the equivalent of eight months (two semesters) of full-time studies.

**Challenge Examination** Students who have acquired skills or knowledge through experience and/or related courses which are relevant to the content of a course offered at Keyano College may be granted credit for such a course by requesting and passing a challenge examination.

**Conditional Students** are admitted to a credit program with the conditions that transcripts or other documents are provided to confirm admission requirements are met. Conditions must be cleared prior to the start of classes or the offer of conditional acceptance may be revoked.

**Continuing Student** A student enrolled in one or more semesters of the previous academic year.

**Convocation** The ceremony to celebrate with those students who successfully completed their programs and satisfied the College's graduation requirements.

**Co-requisite** The requirement, usually a course, students must take at the same time they are taking another course.

**Course Load** The number of courses a student is expected to take while in attendance in a given semester of a program.

**Credit Course** A course that carries credit toward a certificate, diploma, or program of studies.

**Credit** The quantitative measure or weight assigned to the “amount of learning” a student receives through a combination of lectures, tutorials, labs etc.

**Deferred Final Examinations** An examination written by a student, in accordance with College policy, subsequent to the regular time of writing.

**Department** The administrative unit of the College responsible for the academic functions of a program of study.

**Diploma** The recognition awarded to a student who has completed all the requirements of a designated program that is normally 16 months of full-time studies spread over two years (four semesters).

**Drop Period** Students may drop or delete courses before classes start or within the first 1/8 of their semester or session. Dropped courses do not appear on the official transcript.

**Entrance Requirements** Sometimes called admission requirements, are the academic background required for admission to a program of study at the College. Some examples of admission requirements are: a high school diploma, letters of reference, Mathematics 30.
Fall Semester Sometimes referred to as the Fall Term is the period of the academic year which runs from September to December.

Fees The dollar value set, normally annually, by the Board of Governors and used in the calculation of instructional fees. Fees quoted normally include tuition and other charges for instruction and do not normally include textbook charges.

Full-time Student Students taking 60% or more of the full program load in each term are classified as full-time.

Grade Point A weighted value assigned to the grade a student receives in a course, obtained by multiplying the grade received by the course credits. This value is used in calculating grade point average.

Grade Point Average (GPA) A measure of a student’s weighted average obtained by dividing the total number of grade points earned by the total credits attempted.

Grievance A claim or complaint by a student that a College unit has reached a decision which is not in keeping with College policy or has taken an erroneous action which adversely affects the student.

High School Equivalent Academically equal to high school diploma, subject or course.

Instructional Day Any day classes are held.

Instructor Sometimes called a faculty member or teacher qualified to teach at the College.

Intake Defines when students may start a program that is not offered on a semester format.

International Students are citizens or residents of another country who have a valid student authorization to study in Canada.

Matriculation – University Studies Students are those who are not eligible for University Studies or other post-secondary programs due to missing high school pre-requisites. Students are registered as matriculation students and pay fees in accordance with the courses they are taking.

Mature Students meet one of the following criteria with or without a completed high school diploma: (1) have been out of school for at least three consecutive years; or (2) are at least 21 years of age.

Non-Credit Courses are courses not recognized for credit towards a Keyano College certificate, diploma or program of studies.

Option refers to courses in a specific program that are not prescribed by the curriculum and in which the student is allowed a choice.

Parchment The award received for successful completion of a curriculum of studies that is recognized by a certificate, diploma or degree.

Part-time Student A student who is registered in less than 60% of the full program load is classified as a part-time student.

Placement Assessment An assessment to determine the student’s level of academic competence in a particular subject like English or Mathematics. Not normally used to determine admissibility to a program.

Practicum A course of study involving supervised practical work experience.

Prerequisite A course that must be successfully completed before another course can be taken.

Prior Learning Assessment Recognition (PLAR), is defined as awarding credit for learning which has taken place outside of post-secondary institutions. PLAR provides a way of recognizing learning which has taken place on the job, in employment based training, or in a variety of experiences outside of the workplace.

Probationary Students are admitted subject to meeting specific requirements of academic achievement or behavioural performance. Students who meet the conditions of their probation will become Regular Students. Students who do not meet the conditions of their probation may be required to withdraw from the College for at least one semester.

Program An approved group of related courses leading to a diploma or certificate.

Registration The process of selecting courses that are to be taken by a student in a term or session, usually in accordance with a specific program curriculum.

Regular Students are admitted to a credit program on the basis of meeting the entry requirements, or having satisfied a provision of admission, or having successfully completed a probationary period.

Required Courses Often called compulsory or core courses, these are specific courses in a program that must be completed to meet graduation requirements in a program.

Residency Requirement The minimum number of Keyano College courses or credits that must be completed to fulfill a program's requirement or meet graduation requirements.

Returning Student A student who is returning to the College after an absence of a minimum of one academic year.
**Semester** Often known as an academic session or term. Each academic year at the College is divided into periods of time called semesters.

**Senior Level Courses** are courses intended for students in their second or third year of study.

**Special Students** may be admitted to individual credit courses but not to a credit program. Students may take up to four credit courses at one per term at which time their performance will be reviewed. Special Students are not eligible to receive a certificate or diploma.

**Spring Semester** Sometimes referred to as the Spring Term is the period of the academic year which runs from May to June.

**Statement of Marks** A statement or report card of a student’s academic record for a term or semester of study.

**Summer Semester** Sometimes referred to as the Summer Term is the period of the academic year which normally runs from July to August.

**Student Advisor** Sometimes called an academic advisor is an Office of the Registrar staff member who helps students select courses that will satisfy graduation requirements for the student’s program.

**Transcript** A statement or report card of a student’s entire official academic record bearing the original signature of an authorized member of the Registrar’s staff and the official seal of the College.

**Transfer Credit** is credit awarded for courses successfully completed at another accredited or recognized college, university or technical institute. Transfer credit is only given when the knowledge an applicant acquired through previous study is almost identical or equivalent to that which would be gained in one of the credit courses at the College.

**University Transfer Courses** are courses delivered by the College and recognized for credit by Alberta universities as listed in the Alberta Transfer Guide published annually by the Alberta Council on Admissions and Transfer.

**Visa Student** A student studying on visa while in Canada.

**Visiting Students** are admitted on the basis of a letter of permission from another institution, with the intention of transferring Keyano College credits back to the home institution.

**Winter Semester** Sometimes referred to as the Winter Term, is the period of the academic year which runs from January to April.

**Withdrawal Period** Students who withdraw between 1/8 and 1/2 the length of a semester or session will receive a grade of “W” (Withdrawal) in their course(s) which will appear on the official transcript, but is not calculated in the GPA (grade point average).

**Withdrawal** The voluntary cancellation of registration in a course or a full semester of courses by a student who completes and submits to the Office of the Registrar a “Withdrawal” or “Change of Registration” form. The deadlines for students to have registrations “dropped” or “withdrawn” are noted in the Academic Schedule.
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