

ARCHIVE

Humber College of Applied Arts and Technology Calendar for all post-secondary programs, 1985



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Humber is your Best-Choice College

As Canada's largest community college, Humber offers 123 programs, all of which take your skills and interests in new directions. Countless opportunities exist for you to develop as fully as you wish. You can study anything from advertising design to yachting studies. This calendar describes the wide range of day programs offered at Humber as well as admission requirements and course descriptions for each. Because Humber offers so much, chances are you will find the best program for your needs and interests. This calendar can lead you to your best choice.

If you have further questions, contact the Registrar's office at 675-5000.

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The Registration Process*

YOU

1) Send your application in before February 15, if possible. After that, all applicants are judged on a first come, first served basis. (Applications are available in your guidance office or by calling Humber at 675-5000).

HUMBER

1a) We will acknowledge your application by the end of the third week in January, or within seven days of receiving it, whichever is later. We will also set up appointments for testing, interviewing or auditions if they are required and send the information to you along with the letter of acknowledgement.

HUMBER

2a) The first "offers of admission" are mailed on April 1, 1985. We will send you an admission package which includes parking, locker, bookstore and other orientation information, along with your acceptance letter.

YOU

2) A confirmation fee of \$50.00 is required fourteen days after the date of your acceptance letter.

YOU

3) Your full fee payment is due by July 19.

HUMBER

3a) We will send you the last information package before you start classes. It will include your student identification card and the time and place of your first class.

YOU

4) You are ready to begin College. If you have any questions or problems, please call us at 675-5000.

*May differ with certain programs or with special circumstances.

Admissions Information

If you are considering applying to Humber, read this section carefully for general admissions information and then read the specific admissions requirements described under the program in which you are interested. Some programs require interviews, tests or special personal qualities. Be sure you understand what these requirements are.

For all full-time diploma programs and most certificate programs, you must have an Ontario Secondary School Graduation Diploma (Grade 12) or equivalent. OR, if you are at least 19 years old and a Canadian citizen or permanent resident, you can apply as a mature student (see below).

Because we receive more than 20,000 applications, it is important for you to respect all admission deadlines. In several popular programs, a missed deadline could mean withdrawal of your application, and your place will be offered to someone else. We do keep waiting lists, but this is not a guarantee for admission.

How To Apply To Humber College

1. Starting November, application forms are available in the guidance office of your high school or local College of Applied Arts and Technology (CAAT). Read it carefully, and fill it out as soon as possible. You will receive instructions from your guidance office. Remember that you must arrange to have the transcript of your final grades sent to our Registrar's Office as soon as it is available. The date will be stated in your letter of approval.

2. If you are a mature student, you may have to meet with an Admissions Officer to determine if you will require academic upgrading before you are accepted in a program. February 15 Application deadline: for popular programs, a late application is a disadvantage. January – April is the period during which most interviews and assessments are scheduled, where applicable.

April 1 and on is roughly the time when you will receive your answer, through the mail, if you applied before February 15

Priority of Admission

Students will be admitted to colleges of applied arts and technology in the following order of preference:

Permanent residents of Ontario
 Permanent residents from

other Canadian provinces 3. Overseas students from Commonwealth countries

4. Students from other foreign

countries.

A Few Specific Notes About Admissions

Short Programs

Most of our short certificate programs, which are described at the end of each section, are approved for sponsorship by the Canada Employment and Immigration Commission. If you qualify for sponsorship, the cost of your tuition fees will be paid by them, and you will get a weekly training allowance. Contact your nearest Canada Employment Centre for more details. You must have been out of school for at least 12 months to qualify.

Part-time Studies

As a part-time student you are allowed to take a maximum of 15 credits. If you are interested in enrolling in a part-time evening program, pick up a copy of our Continuing Education Guide at our Registration Centre or phone 675-5005.

Weekend College

You can also study on weekends because a few diploma programs are offered on Saturdays and Sundays.

Applicants Outside Ontario

If you attended high school in another province or country, you must prove that your educational standing is equivalent to the Ontario Secondary School Graduation Diploma. Normally, it means grade 11 everywhere in Canada, except in British Columbia, New Brunswick and Prince Edward Island where the equivalent is grade 12.

If you are a visa student and your first language is other than English, please include the results of the TOEFL (Test of English as a Foreign Language) with your application. For details, write to Educational Testing Service, Box 899, Princeton, NJ 08540, U.S.A.

Advanced Standing

You may qualify for advanced standing for grade 13 and/or post secondary courses. Once classes have commenced, please see an Admissions Clerk in the Registrar's Office for possible exemptions.

Campus Tours/Secondary School Liaison

Students often find that a tour of the College helps to understand what life at Humber is all about. You can arrange a tour of the entire college, or of one specific program area by calling the Secondary School Liaison Office at 675-3111 ext. 4014.

Counsellors are invited to call 675-3111 ext. 4301 for any information about the College or our programs.

Academic Calendar

mportant Dates	1984	4 September 4	first day of classes
		October 8	Thanksgiving
		December 4	fees due for winter semester
		December 18	fall semester ends
	1985	j January 7	first day of classes
		January 14	interviewing period begins
		January 21	last day to obtain refund for winter semester
		February 15	submission of applications for fall 1985 admission
		March 4 to March 8	reading week
		March 22	last day to withdraw from a course
		April 1	notification of acceptance begins
		April 5	Good Friday
		May 2	last day of classes
And the second second		July 15	new students' fees due
		August 2	continuing students' fees due
		September 2	Labour day
		September 3	first day of classes
		September 17	last day to obtain refund for fall semester
		October 14	Thanksgiving
		November 8	last day to withdraw for a course
		December 2	fees due for winter semester
		December 17	fall semester ends
	1986	January 6	first day of classes
		January 20	last day to obtain refund for winter semester
		March 3 to March 7	reading week
		March 28	Good Friday
		May 2	last day of classes

Fees and Financial Assistance

The basic tuition fee for fulltime post-secondary diploma and certificate programs is \$272.50 per semester. There is a student activity fee of \$31.50 per semester. You will also be required to pay for textbooks, instruments and other supplies needed for your program. The cost of supplies can vary from \$50 to \$400 per semester.

The fee for applicants from foreign countries who plan to attend Humber College on a student visa is \$4,598.00 per academic year. There is a nonrefundable deposit of \$200.00.

For short programs, students must pay \$15.20 a week for tuition and \$0.25 to \$0.50 a day for learning-material rental.

Fees can be paid by cash, certified cheque or charge card (Visa or Master Card). Cheques and money orders should be made out to Humber College. There is a surcharge for late payment of fees.

The transfer of full-time fees to another term will be considered on an individual basis. The transfer of fees to another college of applied arts and technology (CAAT) may be allowed under special circumstances.

Refund Policy

If you would like to withdraw from your program, you can do so at anytime. However, to receive a refund the College must be notified in writing within ten working days of your first scheduled class.

Your refund will not include your confirmation fee. Please allow four weeks for the refund cheque to be processed.

You will receive detailed information on fees and refunds with your letter of acceptance.

Equipment Deposit

Some programs at Humber involve the use of very expensive technical equipment. In these cases students may use the College's equipment by leaving a deposit at the beginning of the school year. If loss or damage occurs, the cost will be deducted from the deposit. Otherwise, the deposit will be returned at the end of the year.

Ontario Student Assistance Program

The Ontario Student Assistance Program, or O.S.A.P., has a number of plans to help you meet the cost of full-time post-secondary study. The amount of funds that may be granted does not cover the full cost of coming to College. Each application is assessed on the basis of resources, real or expected, available to the student. The amount granted will vary depending upon the resources available as determined by the O.S.A.P. assessment, and allowable costs for each program.

Canada Student Loans Plan

This program provides subsidized loan assistance to students who are registered in an approved certificate or diploma program which lasts at least 12 weeks. You qualify for a Canada Student Loan if you are taking at least 60 percent of a full course load as defined by Humber College.

Scholarships and Bursaries

Scholarships and bursaries, donated by corporations, community organizations and individuals, are also available. Scholarships are awarded according to the donor's specifications to students who achieve academic excellence. Bursaries are awarded on the basis of need but marks are taken into consideration.

Humber does not offer any entrance bursaries or scholarships.

For more information on financial assistance call the Financial Aids office at 675-5001.

Athletics

While at Humber you are welcome to take advantage of our excellent athletic facilities. We have squash courts, gymnasiums, a weight training room, saunas, a jogging area and more.

If you prefer team sports, there is a variety of varsity and intramural activities which range from basketball and soccer to ice hockey. Or, if you just want to get in shape, we have regular fitness classes during the day and in the evenings. Come as often as you like, but remember to bring your student card.

For more information call the North Campus Athletic Department at 675-5097.

Counselling Services

Deciding on the program which is right for you is not always an easy task. Neither is choosing an alternate program if you can't have your first choice. Our counsellors will help you find information and make decisions even before you start school.

Once you are a student at Humber it may happen that you question whether the program you are in is best for you. Or, you may feel that you could learn more if you had better study habits. Our counsellors can help you with these problems as well.

Our resources include a computerized career search system called CHOICES. We also have audio and video tapes on study skills and self-management. These tapes can help you to build confidence and reduce tension. A Peer Tutoring Program pairs weaker students with stronger ones in various subject areas. At school, at work, or at play every extra skill can help you achieve your goals. Drop in and make an appointment with the Counselling office on your campus. North Room C133, 675-5090 Lakeshore Room A169, 252-5571 Queensway Room 6C, 252-9441 ext. 317 Keelesdale Room 7, 763-5141 ext.

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Day Care Facilities

North Campus students with children are welcome to use either the Day Care Centre, the Children's Activity Centre or the Child Development Centre. The Day Care Centre is for children between the ages of two years and five years and is designed for full-time care. Applications for the Day Care Centre should be submitted as early as possible because there is a waiting list. The Children's Activity Centre cares for children between the ages of 16 months to seven years on a part-time basis (up to 24 hours a week). The Child Development Centre offers full-time care for infants up to five years of age as well as children with special needs.

For more information call 675-3111, Day Care Centre ext. 4497 or Activity Centre ext. 4430. You can call the Child Development Centre at 675-5057.

Food Services

You will find several eating spot at the North Campus to satisfy any appetite. The Pipe is a large cafeteria that serves hot meals all day. The Humberger is a smaller cafeteria where you can get soup, sandwiches and light meals as late as 9 p.m. There is also the Salad Bar which is open at lunch time.

The other campuses also have cafeterias where you can buy either a hot meal or a snack during class hours. The York-Eglinton Centre is supplied with vending machines for soft drinks and snacks.

Caps, a pub and deli located at the North Campus, is open to all Humber College students from Monday to Friday. Entertainment is scheduled regularly.

Development Centres (Human Studies)

Humber has two facilities to help students who are weak in the basic skills of English and math. One, the Language Development Centre, provides assistance to students needing extra help in English. They may drop in anytime for specific help on a problem, or they may come on a regular basis to work on a program we will design to meet their individual needs. In the other, the Math Development Centre, Fundamental Math courses are offered for students whose pretests have shown their skills need improvement. There is also some individualized help offered on a drop-in basis.

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The Math Development Centre is in E345, and the Language Development Centre, in E344, at North and B202 at Lakeshore. We're open from 9-4:15 Monday¹⁰ Thursday and from 9-3:20 on Friday.

Handicapped Students Facilities

Ramps make access to all campuses of the College possible to students using wheelchairs. In the North Campus there is also an elevator for which you can obtain a key with a \$5.00 deposit.

All campuses are equipped to provide basic services to handicapped students (phones, washrooms, etc.).

Housing

Humber College provides a listing service to students who are in search of an apartment or room. The listings include several kinds of accommodations: room and board, apartments, flats, townhouses, etc. Because of the demand, we urge you to begin looking for housing towards the end of June.

We have a residence for women located at the Osler Campus. Bustransportation is provided between the North Campus and the residence.

For information on housing, phone 675-3111 ext. 4531 or 4535.

Libraries and Bookstores

The library at your campus is well stocked with magazines, newspapers and other resource materials to help you with essays and reports or simply for your enjoyment.

The Learning Resources Centre at the North campus and the Instructional Materials Centre at the Lakeshore and Queensway campuses can provide you with the audio-visual equipment and materials that will add professionalism to your presentations.

The North, Lakeshore, Queensway and Keelesdale campuses all have bookstores where you can purchase textbooks, supplies, candy and tobacco. There is a post office located in the North campus bookstore.

Placement Services

Finding a job takes hard work and determination. Although no one can find a job for you, we can help. Throughout the year the Placement Office posts hundreds of summer, part-time and career-oriented jobs.

When you come to the Placement Office, the staff can give you tips on job search and interview techniques and writing effective letters and resumes. The College also provides on-campus interviewing facilities.

Each campus has a Placement Office. For information on job opportunities or services available call or drop by the office serving your campus. North 675-5028 Lakeshore 252-5571 Queensway 252-9441 Keelesdale 763-5141

Peer Tutoring

As a service to the students who are having difficulties in some courses, the Counselling department has set up a system of peer tutoring. A successful student volunteers assistance in a specific course to a student who needs additional help on a personal basis.

Special Needs Learning Materials

Humber College has a new service to provide Special Needs Learning Materials. Students requiring textbooks transcribed onto tape, or BRAILLE may contact the Humber College Library.

Services en Francais

Le Collège Humber offre des cours, des programmes et des services en français à la population étudiante.

Les cours sont la responsabilité de la Division des Humanités (Human Studies Division) et de l'Education Permanente (Continuing Education).

Les programmes sont donnés au Campus Lakeshore et des services en français sont pourvus à ce campus et au North Campus.

Pour des renseignements en français, composer le 675-5006.

Transportation

All Humber College campuses can be reached by public transportation. For more details see the map in the back.

In addition, Humber has its own buses for inter-campus travel. The distinctive black and white buses travel to the North, Lakeshore and Osler campuses from the Islington Subway station and the Osler campus residence. You can get on a Humber bus at various points along one of the two routes.

Schedules, passes and tickets are all available at your student association at North and Lakeshore campuses or at Osler Campus.

If you drive, there is parking at all campuses except Osler and York-Eglinton. You will have to buy a parking sticker at the Bookstore or pay by the day.

Academic Upgrading

Locations: Lakeshore or Keelesdale Campus Start dates: Evening classes begin every semester.

If you never completed high school, and are 19 years of age or over, it may be appropriate for you to begin your college education in our Academic Upgrading Program. To start the program you should have an interview with an admissions officer to help determine a career path that's best for you. We can help you work toward a certificate or toward admission into any program outlined in this calendar.

For every program, we have determined the specific academic tasks that you should be able to do by the time you are admitted. This allows us to build an individual study plan for you that may include English, mathematics, physics, chemistry, typing, drafting and life skills. To ensure proper placement, the first days of the program are devoted to orientation and evaluation. You may be eligible for assistance through yba local Canadian Employment and Immigration Centre (Manpower), or through one of the financial assistance programs sponsored by the Province of Ontario.

Languages

French Programming — Cours en francais

Committed to meeting the needs of an ever-growing population of French-speaking students, Humber offers many courses in French. In this way graduates of highschool immersion programs can maintain and improve their level of proficiency in the French language.

Plus vous serez nombreux, plus nous pourrons vous offrir de cours en français Communiquez avec Raymond Doucet pour plus de détails 675-5006.

Nous offrons déjà un programme: la Bureautique.

English As A Second Language (E.S.L.)

Full Time Day Classes

Basic E.S.L.

This is a 24-week beginners course which emphasizes the oral skills needed for employment and further education in Canada. Classes start at intervals throughout the year and are held at Keelesdale and York-Eglinton campuses.

Advanced E.S.L.

This 12-week program help^s students improve both oral and writing skills as they prepare to enter college or university courses or to work in their professions. Admission is by interview and tests (by appointment only). Classes are held at Keelesdale campus.

NOTE:

For information, please call 763-5141, ext. 57.

Students may be eligible for assistance through their local Canadian Employment and Immigration Centre.

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How to get the most out of this calendar

You will notice that there are five basic divisions where we have tried to group together related programs. These divisions are Applied & Creative Arts, Business, Health Sciences and Human Services, Hospitality and Technology. Each program has one reference number no matter how many options it includes.

Short programs are placed at the end of each division. These usually have a duration of less than a year and are often sponsored by the Canada Employment and Immigration Centre.

If you do not find the program you are looking for in the table of contents in front of each division, look up the index in the back of the book where all our programs are listed alphabetically. The programs are often under two different names. For example, retail floriculture is also listed under flower shop management. An asterisk in front of a program means that Humber is the only college to offer this program in Ontario.

To read the course descriptions for programs that interest you, just go to the back of the book where the course descriptions are divided in the same way as the program divisions. The thumb index matches the two sections for easier reference. You look up the course as you would in a dictionary.

With more than 1,000 courses included in this book, it is possible that some course descriptions have been omitted.

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Applied and Creative Arts









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ARTS

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Equestrian Coach Preparatory Program

APPLIED ARTS and TECHNICAL PROGRAMS

North Campus

Two semesters beginning September

This intensive program will prepare you and your horse to meet the requirements for your certification as a qualified level 1 or 2 instructor under the Canadian Coaching Development System.

The ultimate objective of this system is to produce Canadian coaches capable of fielding horses and riders of international calibre in the three Olympic disciplines (Grand Prix Jumping, Three-Day Eventing and Dressage). This pinnacle must be supported by a firm base of instruction at all levels of riding from the beginner up. Hence, the establishment of a sixlevel program designed to encourage qualified instructor certification at all levels.

Assistant Level 1, General (nonriding): to assist only

Level 1, General: capable of teaching beginner riders

Level 2, General: capable of teaching intermediate riders

Level 3, Specialist: (provincial) in Olympic disciplines

Level 4. Specialist: (national) in Olympic disciplines

Level 5, Specialist: (international) in Olympic disciplines

At the end of this program, students will take either the level 1 or level 2 exam administered by the Ontario Equestrian Federation. Please note that completion of the Humber course is only the preparatory stage and that successful completion of the exam is necessary for certification.

Admission Requirements

Ontario Secondary Shool Graduation Diploma or equivalent
applicants must be capable of: working a horse effectively on the flat at walk, trot and canter, negotiating a course of three-foot fences
provide a horse capable of meeting the objectives outlined in the C.A.C. Equestrian Level 1 Man-

ual. • personal interview (for applicants living over 300 miles from the College, resumes plus pictures of themselves riding on the flat and

over fences will be considered as a

Job Opportunities

substitute

Full-time and part-time teaching positions in private and public stables, competition coaching and training (beginner and intermediate level), freelance teaching, and pony club instruction are all areas of possible involvement for the certified level 1 or level 2 equestrian coach. There are a considerable number of part-time jobs available in the industry, but a limited number of full-time positions.

Those employed in a coaching career will find the hours irregular, often teaching from late afternoon on into the evening, and all day on weekends. Instructors in this field are paid either a base salary with fringe benefits if working for one stable or by the hour if freelancing. At the bottom end of the scale, i.e. the level 1 coach, a low salary scale should be anticipated. However, salaries can be expected to escalate if the coach advances to a higher certification level.

Additional Costs

• Textbooks will cost approximately \$60 but you should count on \$160 for personal riding equipment and apparel and \$130 a month for the horse's board. Students will be expected to supply all the necessary tack, grooming equipment and bandages for their horses, together with suitable riding clothes for themselves. Stable utensils, clippers and lunging equipment will be available from the College.

• In order to take the coaching exams, you must be a Senior Member of the Canadian Equestrian Federation. This will cost those who do not have this status approximately \$45.

• The cost of the required Technical Clinic is \$50 and the cost of the Examination is \$100. These costs are made payable to the Canadian Equestrian Federation before you take the Coaching Association of Canada exams.

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APPLIED ARTS and TECHNICAL

PROGRAMS



Curriculum		and the second second second
Semester 1	(26 hours/week)	Credits
and the star of	Theory of Coaching 1	faces in the second second
CU RELEN	Equestrian Skills 1*	6
and the second	Horse Health I	2
1.000100000	Instructional Theory*	2
	Practice Teaching*	2
anto Plant	Stable Management*	3
STAR HOND	Practicum I	4
· 161 5 **	Basic Nutrition	2
San Presses	Communications 1	4
Semester 2	(26 hours/week)	
-licenter of	Theory of Coaching 2	1
the state	Equestrian Skills 2*	6
to the main	Horse Health 2	2
Service of the servic	Practicum 2*	4
With the po	Small Business and Farm Management	5
Can the	Breaking, Training and Conditioning	3
- Contraction	First Aid and Accident Prevention*	1
	Communications 2	4

It is a prerequisite of the Coach. ing Certificate Program that applicants for the level 1 exam are at least 18 years of age and have some teaching experience. Applicants for the level 2 exam must be at least 20 years of age and havea minimum of two years teaching etperience. Students are totally responsible for their horse's care and must find someone to look after their horse when they are absent We strongly encourage you to plan for transportation for you and your horse to take advantage of the numerous schooling shows in the area. These shows give the added experience required for the level | and 2 exams. While preparing for the Ontario Equestrian Federation's final exam, students will be immersed in review and assimilation of all course material covered during the year.

*These courses are crucial to your success.

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Equine Studies

North Campus

Four Semesters Beginning September plus four weeks of Field Practice in May

Have you ever thought of preparing for a career with horses? If so, you might seriously consider our new, revised, Equine Studies program. The program is designed to offer you a number of options within the horse industry. Our oneyear certificate program will prepare you to obtain employment as a skilled stable attendant. You will learn the rudiments of nutrition and horse health. In Practical Horse Care you will learn and perfect the necessary skills such as bandaging, braiding and clipping. Facility Operations will teach you how to drive a tractor, harrow an arena and make simple stable repairs. During May, prior to graduation, you will be placed in the work force in order to gain additional skills and experience.

The second year of our program is highly specialized. Successful graduates of our certificate program and qualified candidates presently working in the industry may be admitted to either our Equestrian Coaching Diploma or Equine Management Diploma programs.

The intensive Equine Management Option is designed to build on to your previous knowledge and to prepare you for an entry-level position in the management of show, breeding, western or racing stables.

The Equestrian Coaching Option will prepare you to meet the requirements for certification as a qualified Level 1 or Level 2 instructor under the Canadian Coaching Development System.

Curriculum

Horse Care and Equine Skills Program – Certificate

Semester 1	(24 hours/week)	Credits
E. L. L.	Basic Nutrition	2
	Horse Industry 1	2
1	Horse Health 1	2
	Riding & Driving Skills 1	3
	Practical Horse Care 1	3
a set is a	Facility Operations 1	4
1 to a starting	Communications 1	4
	General Studies	3
1 - 1 - 1	First Aid & Accident Prev.	1
Semester 2	(23 hours/week)	
	Horse Industry 2	2
the state of the s	Horse Health 2	2
	Riding & Driving Skills 2	3
	Practical Horse Care 2	2
	Facility Operations 2	4
	Breaking & Training	3
	Communications 2	4
	General Studies	3

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- interest in and suitability for employment in the horse industry
- •a certificate confirming satisfactory
- physical health
- experience in some phase of the equine industry
- a resume must be submitted with original application
- this resume should list all equine related work experience, future goals (short and long-term), reasons for applying to this program as well as two photographs (English – one on the flat, one over fences; Western – one of equitation, one of performance) if applicable. Please note: unfortunately we are unable to return the photographs.
- a confirmation appointment may be necessary prior to final acceptance

Interests and Skills

• Self discipline, a sense of responsibility, and maturity.

- •Ability to work as part of a team.
- •Willingness to work hard and pride in accomplishment.
- Communications skills.

APPLIED ARTS and TECHNICAL PROGRAMS

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APPLIED ARTS and TECHNICAL PROGRAMS

102

Job Opportunities

Certificate Program

Jobs exist as skilled labour in breeding farms, show stables, racing stables and boarding and training operations. Employment in Equine Care ùsually means a 5-6 day work week. The work is physically demanding and much of the work is done outdoors. Fringe benefits may include room and/or board, board for a horse, the opportunity to travel and opportunity for further education. One should anticipate a low salary.

Management

Racing operations, breeding farms, show stables, racetrack administration, Western establishments and boarding and training operations and horse related businesses are all areas of possible employment as a junior manager.

Coaching

Full-time and part-time teaching positions in private and public stables, competition coaching and training (beginner and intermediate level), freelance teaching, and pony club instruction are all areas of possible involvement for the certified level 1 or level 2 equestrian coach. There are a considerable number of part-time jobs available in the industry, but a limited number of full-time positions.

Additional Costs

• Personal riding, working and grooming equipment can total \$250.00. Student's work in the field for various periods during their two years in the program and are expected to pay for their meals and transportation during field practice periods. On the average, costs will not exceed the day-to-day costs of meals and travel to the College.

Diploma in Equine Management

Prerequisite: Horse Care and Equine Skills Program OR equivalent life experience

Semester 3	(24 hours/week)	Credits	
Semester 5	Anatomy & Physiology 1	2	-
	Nutrition 1	2	
	T.B. Racing Industry OR	2	
	Showing & Judging 1	2	1
	Stable & Farm Mgmt. 1	2	
A	Reproduction & Breeding 1	2	
	Riding Skills 1	3	
	Facility Mgmt. 1	4	
	Elements of Accounting	4	
	General Studies	3	
Semester 4	(24 hours/week)		
	Anatomy & Physiology 2	2	
	Nutrition 2	2	
	Racetrack Administration OR	2	
	Showing & Judging 2	2	
	Reproduction & Breeding 2	2	
	Riding Skills 2	3	
	Equine Exercise Physiology	2	
	Facility Mgmt. 2	4	
	Stable & Farm Mgmt. 2	2	
	Basic Keyboarding	2	
	General Studies	3	

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APPLIED ARTS and TECHNICAL PROGRAMS

Diploma in Equestrian Coaching

(to take place of the Equestrian Coach Preparatory Program) Prerequisite: Horse Care and Equine Skills Program OR equivalent life experience

Semester 3	(24 hours/week)	Credits
	Anatomy & Physiology 1	2
and a set of the	Nutrition 1	2
THE REPORT OF	Equestrian Sports Psych.	2
	Instructional Theory	2
July - Library	Showing & Judging 1	2
125	Stable & Farm Mgmt. 1	2
	Theory of Coaching 1	
39-7-4-1	Teaching Skills 1	2
and the second	Equestrian Skills 1	5
and the second second	Coaching Aware. Theory 1	and second
And the Party	General Studies	3
Semester 4	(24 hours/week)	and the second second
and the second second	Anatomy & Physiology 2	2
N LL M	Nutrition 2	2
- Line of the same	Coaching Aware. Theory 2	1
AN CONTRACTOR	Showing & Judging 2	2
- Harris	Stable & Farm Mgmt. 2	2
The second	Teaching Skills 2	4
and the second	Theory of Coaching 2	1
L'india 112	Equestrian Skills 2	5
247	Equine Physiology Exer.	2
- united	General Studies	3

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APPLIED ARTS and TECHNICAL PROGRAMS

North Campus

Two semesters beginning September

Success in fashion modelling and in related careers requires more than training in skills and techniques to be used on the job. It also depends on the development of a professional attitude to personal appearance, to industry expectations and the acceptance of trends in the wholesale or retail fashion as well as in the beauty industry.

The first semester of the program is the same, whether you choose fashion modelling or a related career. It is during this period that you should develop an awareness of your specific interests and talents because you will have to make a choice for the second semester's option.

Admission Requirements

• Ontario Secondary School Graduation Diploma

- •excellent communication skills and outgoing personality
- a basic understanding of the fashion modelling profession is an asset for your success in this program.
- for aspiring models, clear skin, white even teeth, photogenic face and a well-proportioned slender body (between 5'6 and 5'10 are minimum requirements.
- orientation session at which you should bring a snapshot of yourself (preferably head and shoulders). Telephone orientation is possible for students who live far outside of the metro Toronto area.

Curriculum		Credits
Semester 1	(24 hours/week)	
	General Fashion Show Production 1	
	General Fashion Industry 1	4
	General Fashion Show Techniques 1	4
	General Field Work Orientation 1	4
	Cosmetic Theory & Practice 1	4
	Communications 1	4
Semester 2	(24 hours/week)	
	Modelling Careers:	
	Cosmetic & Beauty Industry	4
	Fashion Modelling Industry 2	4
1.0	Fashion Show Techniques 2	4
1.1.1.1.1	Field Work Orientation 2	4
	Fashion Photography Modelling	4
	Communications 2	4
	Related Careers:	1
	Fashion Show Production 2	4
	Fashion Industry Carcers	4
	Fashion Stylist Photography	4
	Cosmetic Theory & Practice 2	4
	Field Work Orientation 2	4
1000	Communications 2	4

Job Opportunities

Armed with a carefully prepared portfolio assembled in the second semester, graduates will look for jobs as fashion models in top modelling agencies or wholesale

Fashion Modelling and

Related Careers

agencies where sales positions are also available, as fashion photography studio assistants, as cosmetics representatives or demonstrators, as make-up artists, beauty spa or modelling agency staff, and as cosmetics boutique attendants or, later, managers. Field trips include fashion shows, cosmetic outlets, wholesak garment areas, fashion centres within Metropolitan Toronto, and photography studios. During the year many guest lecturers from the fashion industry offer seminars to students.

Food Industry Technician Program



104

North Campus

Five semesters beginning September

This program prepares students for jobs in the food industry which develops marketable forms of food. The emphasis is on the experimental approach to food, a knowledge of its components, ingredients and nutrients, as well as sensory evaluation, product development and food marketing.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- •Grade 11 or 12 chemistry is highly recommended

Interests and Skills

- ability to make decisions and assume responsibility
- •capacity to relate one subject to another and put theory into practice •ability to work well with people

Job Opportunities

The employment rate of this program's graduates is good. The food industry provides jobs in quality control, product development, product surveys and marketing promotion. Work and projects in product testing laboratories are organized through a team approach. With experience graduates can improve their position through responsible application to their job and continued interest in courses recommended by their employers.

Semester 1	(24 hours/week)	Credits
Semester 1	Foods 1	4
	Nutrition 1	3
	Consumer Research 1	4
and a set	Science of Foods	3
and the second	Mathematics for Food Technicians	3
and the second second	Communications 1	4
	General Studies	3
Semester 2	(24 hours/week)	
1.1.1.1.4	Foods 2	4
	Nutrition 2	3
	Consumer Research 2	4
	Field Practice 1	2
	Food Chemistry 1	4
	Communications 2	4
	General Studies	3
Semester 3	(24 hours/week)	
1-1-1-1	Experimental Foods	4
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Foods 3	4
	Food Marketing 1	4
	Supervisory Techniques 1	4
	Field Practice 2	2
	Food Chemistry 2	3
	General Studies	3
Semester 4	(23 hours/week)	
	Field Practice 3	6
	Food 4	4
	Food Marketing 2	4
	Supervisory Techniques 2	3
	Microbiology	3
	General Studies	3
Semester 5		
	Internship 8 weeks (two 4-week	

Landscape Technician Technologist Program

APPLIED ARTS and TECHNICAL PROGRAMS

105

North Campus

Four semesters for technician training plus two more for technologist training

This program will provide you with a thorough knowledge of landscape development, site engineering, design layouts, general horticulture and related technology. In-class studies during the academic year, combined with summer work experience and a fifth semester during the summer, give you the opportunity to understand basic horticultural principles and common trade procedures. Business courses are included with landscape courses to provide you with an insight into progressive business practices.

Once you have completed your first year, you will choose either the Landscape Option, the Arboriculture Option, or the Interior Plantscape Option.

The third year, aimed at the Technologist focuses on training in construction practices, turf management, plant identification and pathology during a summer semester (July and August). The sixth semester completes your training during the winter preparing you for employment in the landscape industry for mid-April.

Admission Requirements

•Ontario Secondary School Graduation Diploma or equivalent

Job Opportunities

With this diploma and some experience you will be able to assume positions of responsibility with landscape contractors, in nurseries, garden centres, park systems, golf courses and horticultural product companies. After a few years you may wish to form your own landscape company or become manager for a large contracting company, superintendent of a golf course, sales manager for a horticultural supply company, etc.

Curriculum	interest in the second	-
Semester 1	(23 hours/week)	Credits
	Site Layout & Survey Math 1	3
Children and	Landscape Drawing 1	3
hours and the	Pest Control	3
trad in sures	Arboriculture l	2
1 1 1 1 1 1 H	Applied Botany	3
and the second	Plant Identification 1	2
	Communications 1	4
	General Studies	3
Semester 2	(23 hours/week)	-
1000	Computer Studies	4
and the second second	Landscape Design 1	3
	Applied Soils	3
1.5	Arboriculture 2	2
	Garden Centre Operation	2
	Plant Identification 2	2
	Communications 2	4
Con Children	General Studies	3
Semester 3	(22 hours/week)	
and the second second	Site Construction Math 1	4
	Landscape Materials & Techniques	3
1 million Sale	Field Instruction 1	4
	(Interior Plantscape Option, Arboriculture Option or Landscape Option) Floriculture 1	2
	Arboriculture 3	3
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	General Studies	3
AL LALLE	Plant Identification	3
Semester 4	(25 hours/week)	
Sector sector	Site Construction math 2	4
Ly user in	Field Instruction 2	4
in the	(Interior Plantscape Option, Arboriculture Option or Landscape Option) Floriculture 2	1
	Arboriculture 4	3
	Elements of Accounting	3
	General Studies	4
	Landscape Des ign 2	3
	Plant Identification	2
		2



APPLIED ARTS and TECHNICAL PROGRAMS

Semester 5	(29 hours/week) (July-August)	Credits
	Landscape Design & Presentation 1	3
	Construction Practices 1	8
The Real Property of	Plant identification 3	2
	Applied Plant Pathology	3
the second second	Turf Management	3
	Municipal Parks Operations	2
Semester 6	(27 hours/week)	
The second	Landscape Design & Presentation 2	3
	Construction Practices 2	6
Contra and	Plant Identification 4	2
	Sales, Marketing & Advertising	4
	Insurance and Risks	3
	First Aid and Accident Prevention	1
	Construction Management	4
In Side and	Supervision & Management	4
-		



Curriculum



Lakeshore Campus

Four semesters beginning September

This two-year program will prepare you for a career in law enforcement or a related field. Your courses will cover police, security, customs, corrections and private investigation functions. As well you will study the administration of justice in Canada, law enforcement concepts and practices, and the human dimensions involved in this type of work.

Semester 1 Credits (23 hours/week) Nature of Crime 1 4 4 Introduction to Law Human Resources Development 1 3 Philosophy of Law Enforcement 1 4 Police Physical Fitness 1 1 4 Communications 3 **General Studies**



APPLIED ARTS and TECHNICAL PROGRAMS

Admission Requirements

- Ontario Secondary School Graduation Diploma
- medical certificate to prove your good health and a colour blindness test
- orientation seminar which will help you understand the employment reality, discuss career opportunities, outline the personal characteristics of a successful candidate and explain the philosophy of the program.

Interests and Skills

• several law enforcement agencies require specific height, weight and vision standards, good mental and physical health, good moral character and habits, and Canadian or British citizenship

Job Opportunities

Entry-level jobs are security officers, court security, police dispatchers, police station duty operators and correctional officers. After a couple of years, you can aspire to become police constable, security supervisor or custom officer depending on your abilities.

Semester 2	(24 hours/week)	Credits
	Criminal Legislation 1	4
	Nature of Crime 2	4
-	Security Practices	4
- C	Criminalistics 1	4
1	Police Physical Fitness 2	1 p
1.00	Communications 2	4
	General Studies	3
Semester 3	(26 hours/week)	and the state of the
the same of the	Politics & Power Structures	3
Second and	Criminalistics 2	4
	Criminal Legislation	4
1.00	Field Practice 1	4
	Philosophy of Law Enforcement 2	4
	Racial and Ethnic Group Relations	3
	Police Physical Fitness 3	1
	General Studies	3
Semester 4	(24 hours/week)	
101-01-00	Crisis Intervention	3
Children	Field Practice 2	4
	Criminology and Corrections	3
	Customs and Immigration Procedures	2
	Criminal Justice Administration	2
	First Aid	2
	Applied Psychology	4
	Police Physical Fitness 4	1
	General Studies	3

During the second year you will spend at least 100 hours in field placement and will go on an extended field trip.

Nature Interpreters Program



APPLIED ARTS and TECHNICAL PROGRAMS

North Campus

Post-Graduate Program

3 semesters beginning January (one in field placement May to August)

(Pending approval of the Ministry of Colleges and Universities)

In this program you will learn the techniques and skills needed to provide interpretive programs with variety and expertise. Major emphasis is placed on communicating effectively with the public by understanding and anticipating the needs of a variety of groups.

During the first semester a solid foundation of interpretive skills will be laid to assist the students in the middle placement semester. The planning of programs, displays, posters and pamphlets will lead students through actual examples from beginning to end, with a chance to apply this in the second and third semesters. Further emphasis is placed on knowing available resources. Many interpretive or natural resource centres will be visited, and available resource literature and courses will be reviewed.

If you are considering this program, you should have a strong background in natural science and an understanding for the role a nature interpreter plays. Also valuable is an understanding for the jobs available and a keen desire to strive professionally for a position in a competitive field.

Courses of study include: Life Span Development, Social Interaction in Interpretation, and Interpretive Planning. The second semester is field placement. The third semester will include courses in Applied Interpretation, Nature Interpretation Resources 2, First Aid and CPR, and Media Applications.

Admission Requirements

- graduate of a complementary college program; i.e. Recreation Leadership, Horticulture, Fish and Wildlife Management;
- •OR completion of several relevant Natural Science courses;
- •OR a strong work experience background dealing with resource management or a natural science area;
- •OR an Ontario Secondary School Graduation diploma (including Biology), plus a strong hobby naturalist background.
- an interview to determine suitability.

Job Opportunities

Possible areas for employment include conservation authorities, school board outdoor education centres, provincial parks, arboreta, etc.

Additional Costs

- Textbooks and other supplies will cost approximately \$125. Field trips will incur additional expenses and relocation expenses may be involved in the second semester.
- For more information contact Donna Reid at 675-5009.

Field Placement

• A four-month field placement takes place during May to August. Students are expected to find an experience-related summer job. A resource of agencies for placement is available for those students experiencing difficulty. However, a paying position may be compromised.

Audio-Visual Technician

COMMUNICATIONS PROGRAMS

North Campus

Four semesters beginning September

The rapid increase in the use of all communication media for educating, marketing, and training has created a demand for knowledgeable individuals skilled in the use, creation, presentation, and distribution of audio-visual packages. Students work with computers, still photography, television, multi-image slide sound productions, scripting, lighting, graphics, and electronics. Humber's challenging and practical Audio-Visual Technician Program offers two options: production and technical, both supported by active involvement in the AV industry.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- grade 12 technical or academic mathematics, at least 3 credits in science (up to grade 12)
 physics would be very helpful
- pre-admission orientation meeting

Job Opportunities

Audio-visual graduates will find work in industry, many marketing and sales organizations, government ministries and service commissions, educational institutions, libraries, hospitals, media production corporations and closed-circuit television facilities.

Depending on the services offered and the degree of task specialization, most of these employers would require a Humber College Audio-Visual Technician graduate with either strong production capabilities or thorough audio-visual technical skills.

In order to prepare for these demands, students will have obtained on-the-job training during their internship field work in the last semester.

Curriculum		
Technical Opt	ion	
Semester 1	(24 hours/week)	Credits
	A.V. Media Applic. Intro.	3
	Computer Basic, Intro.	3
	Communications 1	4
	AV Mathematics	2
	Photography 1	3
	Electronic Keyboarding	2
	AV Electronics 1	3
	TV Production, Intro.	4
Semester 2	(28 hours/week)	
	Comm. Cont. A.V. Equip.	2
	Communications 2	4
	Photography 2	3
	Computer Design	3
	TV Production 2	4
	AV Electronics 2	3
	AV Applied Physics	2
	Audio Recording Techniques	1
	General Studies (2)	6
Semester 3	(22 hours/week)	
	AV Prod. Workshop, Sponsored Projects	2
	Computer Animation/Videotext	3
	TV Production 3	4
-	AV Electronics 3	3
	Graphic Applications for Media	4
	General Studies (2)	6
	nm courses are for Work Experience	1.16
Semester 4	(24 hours/week)	the second



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COMMUNICATIONS



Semester 1	(24 hours/week)	Credits
	A.V. Media Applic., Intro.	3
is manual	Computer Basic, Intro.	3
THE STATE	Communications 1	4
	A.V. Mathematics	2
	Photography 1	3
	Electronic Keyboarding	2
C. M. C.	Scripting 1	3
	TV Production, Intro.	4
Semester 2	(27 hours/week)	
Total Indiana	Computer Cont. A.V. Equip.	2
	Communications 2	4
	Photography 2	3
	Computer Design	3
ALL STATE	TV Production 2	4
17-89.9	Scripting 2, Workshop	2
A DECKER AND	Audio Recording Techniques	1
	AV Applied Physics	2
and the second second	General Studies (2)	6
emester 3	(22 hours/week)	114
	AV Prod. Workshop, Sponsored Projects	2
	Computer Animation/Videotext	3
	TV Production 3	4
	Lighting Applications	3
	Graphic Applications for Media	4
	General Studies (2)	6

I at Oat

(All program courses are prerequisite for Work Experience Fieldwork)

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Semester 4	(24 hours/week)	
A State of Street	Work Experience Field Work	24

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Area Since fragmente



COMMUNICATIONS PROGRAMS

North Campus

Four semesters beginning September

A picture is worth 10,000 words, and today's society is one in which photographs are a major communication tool. If you wish to combine artistic skills with a business sense, photography could be the career for you. The twoyear program offers you photographic technology, creative techniques, support skills and practical applied photography training,

You will study lighting, studio and darkroom techniques, theory for black and white and colour photography. The objective of the program is to train you in the many dimensions of the profession: portraiture, wedding, fashion, architectural, nature, industrial and medical photography.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- pre-admission interview, at which time a portfolio of black-andwhite, colour slide or print photography must be presented
- completion of a basic photography course is a distinct advantage
- the recommended academic preparation is grade 12 English, grade 11 math, grade 11 or 12 physics or chemistry
- Students are expected to attend all guest lectures.

Job Opportunities

Basically, graduates work in studios, occasionally in corporations and institutions, and in the industry, or they can become freelance professionals, particularly after a few years of experience.

Additional Costs

• First-year students are expected to buy cameras, tripods, meters, tanks, auxiliary equipment and film (which will cost approximately

Curriculum		Credits
Semester 1	(21 hours/week)	2
1	Photography Theory 1	3
A	Photography Studio 1	3
	Photography Applied 1	
	Photography Darkroom Techniques	
	Photography Lighting 1	3
	Elements of Photographic Design 1	2
	Communication 1	4
	General Studies	3
Semester 2	(22 hours/week)	Said
(Improved as)	Photography Theory 2	2
	Photography Studio 2	3
	Photography Applied 2	4
	Photography Darkroom Techniques 2	3
	Photography Lighting 2	3
	Elements of Photographic Design 2	2
	Communications 2	4
	General Studies	3
Semester 3	(24 hours/week)	
Second	Photography Theory 3	2
	Photography Studio 3	3
	Photography Applied 3	4
	Photography Darkroom Techniques 3	3
	Photography Colour Process	4
	Photography Cault	2
	Photography A/V Techniques	3
in the second	General Studies	3
Semester 4	(19 hours/week)	- 14-
	Photography Business Management	2
	Photography Theory 4	2
	Photography Studio 4	
	Photography Lighting 3	
	Photography Applied 4	
	Photography D. C.	
	Thotography Professional Studies 3	

\$3,000). Second year students will have to purchase supplies and

equipment that may also cost up to \$3,000.

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Film and Television Production



PROGRAMS

North Campus

Six semesters beginning September

This skills-oriented program is designed to provide the knowledge and expertise required to undertake many of the technical functions of the two popular media of film and television. Professional production facilities are available for students to apply their artistic and technical abilities to the preparation of film and video-tape for use in cinema and broadcasting. Classroom lectures and handson practical experience equip students to become camera operators, directors, writers, editors, lighting technicians, and production managers. During the third year, students devote most of their time to film and tape production. Our students productions have won acclaim in competition and at festivals.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- pre-admission interview, at which time a portfolio of creative work related to film and television production must be presented

Job Opportunities

The fields of film and television are highly competitive, and entry positions in the industry are usually junior. Graduates work in the public and private sectors of television, cable systems, film production houses, audio-visual firms or, with experience, as freelance producers to the industryat-large.

Additional Costs

\$600 the first year, \$1,000 the second and \$1,500 in the third.

Semester 1	(26 hours/week)	Credits
	Documentary Film Styles 1	2
See Sel and	Script Writing 1	2
nin de laire	Direction 1	2
1000	Super 8 Prod. Workshop	4
	Intro to T.V. Production	3
and the second	Still Photography	3
The state	Communications 1	4
	General Studies (2)	6
Semester 2	(26 hours/week)	
C Provide and	Film & T.V. Program Formats 1	2
Con Marian	Script Writing 2	2
the states	Direction 2	2
	Super 8 Production Workshop 2	4
	Intermediate T.V. Production 2	3
	Still Photography 3	3
	Communications 2	4
	General Studies (2)	6
	6 hours/week & 7 hours/week)	
	Production Management 1 & 2	2 + 2
	Script Writing 3 & 4	2 + 2
	Film/TV Directing 1 & 2	2 + 2
	16mm Cinematography 1 & 2	2 + 2
	Still Photography 3 & 4	3 + 3
	Sound Recording 1 & 2	2 + 2
	Post Production 1 & 2	2 + 2
al and a	Graphics & Animation 1 & 2	2 + 2
	Colour T.V. Production 1 & 2	3 + 3
	Film Prod. Workshop	2 + 2
	E.F.P. (TV) Workshop	2 + 2
	Sound Recording/Post. Prod. Workshop	2 + 2
	and the second	





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COMMUNICATIONS PROGRAMS

*Third-year students may select a minimum of two courses out of the seven subjects listed in semesters five and six. The student may select more courses if Program Faculty feel the student is able to do justice to the extra workload. Each third-year student will be expected to put in at least an additional six hours of individual learning. A student who is willing to work hard and do extra work has the opportunity to prepare well for a rewarding career.

and the second sec		
Semesters 5 & 6	(22 hours/week)	147102.167
-	Colour T.V. Studio Production 1 &	26 + 6
AT THE REAL	16mm Motion Picture Production 1&2	2 + 2
	35mm Audio Visual Prod. 1 & 2	2 + 2
Elective Cou choose a minim	rses (Students must um of 2*)	
Semesters 5 & 6	Electives	131.20
	Production Management 3 & 4	2 + 2
AIL .	Script Writing 5 & 6	2 + 2
The second s	Directing 3 & 4	2 + 2
de series :	Film & T.V. Camera 1 & 2	2 + 2
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Sound Recording & Mixing 3 & 4	2 + 2
	Post Production 3 & 4	2 + 2
1.14	Animation 3 & 4	2 + 2

Journalism



COMMUNICATIONS PROGRAMS



North Campus

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Six semesters beginning September

Most people's lives are affected by the news media: newspapers, magazines, television, and radio. The public has come to expect responsible, ethical reporting and high standards among those who practice journalism.

Humber's Journalism Program provides training in professional skills and instills a commitment to the concept of a free press, a cornerstone in a democratic society. The day is passing when an aspiring journalist without the appropriate education can easily find work in the news media. To meet this need, Humber's program offers a series of courses to develop writing and editing techniques and styles in all media. It is augmented with a selection of academic courses aimed at providing a broad, general education.

In the third year of the Program, students specialize in the medium of their choice: newspapers, magazines, television, or radio. These entail considerable hands-on laboratory experience with Coven, the students' twice-weekly newspaper, Magazine World, a quarterly magazine, a professionallyoperated colour television studio, and with closed-circuit studios of the Radio Broadcasting Program.

Third-year students also acquire first-hand experience as they intern with area media, including daily and weekly newspapers, magazines, broadcasting stations, and wire services.

Admission Requirements

Ontario Secondary School Graduation Diploma

• Pre-admission assessment and interview

Curriculum	(221,	Court's
Semester 1	(23 hours/week)	Credits
	Fundamentals of Reporting	6
(down briefer	Media of Print & Broadcast Journalism	2
COLUMN STORE	Political Science 1	3
	Communications 1	4
	Keyboarding for Electric Editing	2
	General Studies (2)	6
Semester 2	(28 hours/week)	a service
Lin berner Lin	Basic Black & White Photo.	3
and the second	Radio News 1	2
a la contro da a	T.V. News 1	3
10.19.00	Intro. to VDT's	1
	Newspaper Reporting 1	6
	Journalism Notetaking	3
and only s	Communications 2	4
The state	General Studies (2)	6
Semester 3	(26 hours/week)	
-	Newspaper Layout & Design	2
- Area	Editorials/Reviews/Copy Editing	2
David	Magazine Writing 1	2
New Co	News Photography	2
T Destant	T.V. News 2	3
phillipping Physics	Radio News 2, & Voice Train.	2 .
1.11.102.19	Newspaper Reporting 2	2
China II in the	Sociology	3
	Psychology	3
	Conversational French 1	3
Semester 4	(26 hours/week)	
all line	Journalism Seminar	2
and the second second	Magazine Layout & Design	2
	Basic TV Production	3
	Critique 1	1
a time of	Magazine Writing 2	2
NO NE DED	Radio News 3	2
The second	T.V. News 3	3
EMALL	Newspaper Reporting 3	2
and party	Political Science 2	3
Sec. 1	Economics	3
and the second second	Conversational French 2	3

COMMUNICATIONS PROGRAMS

Job Opportunities Humber's Journalism graduates can usually find work in their area of specialization. They work as reporters and copy editors with: community newspapers, local and metropolitan dailies, and consumer magazines. Many work as reporters and announcers in small-community television and radio stations, as newsletter editors, and in corporate and government information services. In future, they will be engaged in information-gathering and dissemination with the emerging media technologies.

Students must choose either the Print or Broadcast pathway

Print Pathway	/	
Semester 5	(21 hours/week)	Credits
art des	Labour Reporting/Journalism & Law	2
	Press Time 1	10
1. 1. 1. 1.	Print Management	2
	Critique 2	1
Contra Contra L	Logo 1	6
A THE AREA	Print Internship 1	16
	Videotex Survey	1
1 Stand	20th Century History	2
A LAN A ST	The Media and PR	1
Semester 6	(14 hours/week)	
	Press Time 2	10
	Logo 2	6
	Cast Studies	2
	Print Internship	16
Broadcast Pat	thway	1
Semester 5	(20 hours/week)	history
Phile strain for	TV News 4	5
1. 19 (MAL)	Radio News 4	3
	Videotex Survey	1
	Writing for Dadia Commercials	
A PROPERTY	Writing for Radio-Commercials	2
a najar Kini Gump	Labour Reporting/Journalism & Law	2 2
	Labour Reporting/Journalism &	
	Labour Reporting/Journalism & Law	2
	Labour Reporting/Journalism & Law Newsroom Management	2 2 2 2
	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research	2
	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research Broadcast Internship	2 2 2 16
Semester 6	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research Broadcast Internship The Media and PR	2 2 2 16 1
Semester 6	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research Broadcast Internship The Media and PR 20th Century History	2 2 2 16 1 2
Semester 6	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research Broadcast Internship The Media and PR 20th Century History (10 hours/week)	2 2 2 16 1 2 2
Semester 6	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research Broadcast Internship The Media and PR 20th Century History (10 hours/week) Case Studies Broadcast Internship 2 TV News 5	2 2 2 16 1 2 2 2 16
Semester 6	Labour Reporting/Journalism & Law Newsroom Management Broadcast Research Broadcast Internship The Media and PR 20th Century History (10 hours/week) Case Studies Broadcast Internship 2	2 2 2 16 1 2 2

Music Program

North Campus

Six semesters beginning September

Unique in Canada, our Music Program has risen to national and even international acclaim. Its renown stems from a dedication to teaching relevant commercial music, its stage bands, recordings, alumni and faculty.

While all students take the same courses in the first year, you may then choose from three major areas: writing, performing or a combination of both. During these three years at Humber, you will participate extensively in musical ensembles and be encouraged to compose original music and arrange existing repertoire for performance.

If you aspire to sing professionally, you will be interested in our dynamic vocal program. Although you will take the same courses as the instrumentalists, you will also join vocal jazz ensembles and gain valuable experience by singing with Humber's bands and combos.

Each semester vocalists and instrumentalists receive private les-SONS.

Admission Requirements

Ontario Secondary School Graduation Diploma

·audition and music theory assessment

Important: When filling out your application for the Music program, please indicate your major instrument on the form.

Job Opportunities

Graduates find work in the areas of performing, teaching, arranging, composing and copying.

Common First Year

Curriculum

and all the second	Semesters 1 + 2	Credits
	Major Instrument 1 + 2	4 + 4
+ Linn	Major Instrument Workshop 1 + 2	2 + 2
- A TIMEL	Ensembles/Improvisation 1 + 2	4 + 4
adire in all	Theory 1 + 2	4 + 4
A STREET	Functional Keyboard 1 + 2	2 + 2
AND READS	Ear Training 1 + 2	2 + 2
ALL MARKED	Jazz History/American Popular Music 1 + 2	2 + 2
	Communications 1 + 2	4 + 4

After this first common year, students will be taking courses tailored to their major area of study; writing skills, performance or a combination of both.

A Combination of Writing and **Performance Skills**

I CITOI mance Okins	
Semesters 3 + 4 (24 hours/week)	
Major Instrument 3	3 + 4 4 + 4
Ensembles/Improv	isation 3** + 4**
	4 + 4
Theory 3 + 4	2 + 2
Ear Training 3 + 4	2 + 2
General Studies	3 + 3
Additional credits to a minimum of 24 each semester will be selected from the following courses	*Functional Keyboard 3 & 4 for non keyboard majors is a required course if either Arranging or Composition is taken by any

select and music electives: Arranging, Composition, Functional Keyboard, Solo performance, Repertoire Development, Music Electives.

Composition is taken by any student.

Semesters 5 + 6 (24 hours/week)

	Major Instrument 5 + 6	4 + 4
10	Ensembles/Improvisation 5** + 6**	4 + 4
A ANTA	General Studies	3 + 3

Additional credits to a minimum of 24 each semester will be selected from the following courses and music electives: Arranging, Composition, Orchestration, Solo Performance, Repertoire Development.

COMMUNICATIONS PROGRAMS



COMMUNICATIONS

PROGRAMS

Elective choices are available to students in first, second and third year who have obtained advanced standing in any required course.

**The Music Faculty will allocate students to the appropriate ensembles.

Performance	Major	
		Credits
Semesters 3 +	- 4 (24 hours/week) Major Instrument 3 + 4	4 + 4
	Ensembles/Improvisation 3** + 4**	8 + 8
	Theory $3 + 4$	2 + 2
	Ear Training 3 + 4	2 + 2
	Solo Performance 3 + 4	3 + 3
	Repertoire Development 3 + 4	2 + 2
	General Studies	3 + 3
Semesters 5 +	- 6 (25 hours/week)	
	Major Instrument 5 + 6	8 + 8
	Ensembles/Improvisation 5** + 6**	8 + 8
	Solo Performance 5 + 6	4 + 4
	Repertoire Development 5 + 6	2 + 2
	General Studies	3 + 3
Writing Skills	Major 🗸	
	4 (25 hours/week)	4 + 4
		4 + 4 4 + 4
	4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4**	11111
	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 	4 + 4
	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 Ear Training 3 + 4 	4 + 4 2 + 2
	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 	4 + 4 2 + 2 2 + 2
	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 Ear Training 3 + 4 Functional Keyboard 3 + 4 	4 + 4 2 + 2 2 + 2 2 + 2 2 + 2
	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 Ear Training 3 + 4 Functional Keyboard 3 + 4 Arranging 3 + 4 	$ \begin{array}{r} 4 + 4 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 4 + 4 \end{array} $
Semesters 3 +	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 Ear Training 3 + 4 Functional Keyboard 3 + 4 Arranging 3 + 4 Composition 3 + 4 	$ \begin{array}{r} 4 + 4 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 4 + 4 \\ 4 + 4 \end{array} $
Semesters 3 +	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 Ear Training 3 + 4 Functional Keyboard 3 + 4 Arranging 3 + 4 Composition 3 + 4 General Studies 	$ \begin{array}{r} 4 + 4 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 4 + 4 \\ 4 + 4 \end{array} $
Semesters 3 +	 4 (25 hours/week) Major Instrument 3 + 4 Ensembles/Improvisation 3** + 4** Theory 3 + 4 Ear Training 3 + 4 Functional Keyboard 3 + 4 Arranging 3 + 4 Composition 3 + 4 General Studies - 6 (23 hours/week) 	$ \begin{array}{r} 4 + 4 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 4 + 4 \\ 4 + 4 \\ 3 + 3 \\ \end{array} $
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Semesters 3 +	4 (25 hours/week)Major Instrument $3 + 4$ Ensembles/Improvisation $3^{**} + 4^{**}$ Theory $3 + 4$ Ear Training $3 + 4$ Functional Keyboard $3 + 4$ Arranging $3 + 4$ Composition $3 + 4$ General Studies- 6 (23 hours/week)Major Instrument $5 + 6$ Ensembles/Improvisation $5^{**} + 6^{**}$ Arranging $5 + 6$ Composition $5 + 6$	$ \begin{array}{r} 4 + 4 \\ 2 + 2 \\ 2 + 2 \\ 2 + 2 \\ 4 + 4 \\ 4 + 4 \\ 3 + 3 \\ \end{array} $ $ \begin{array}{r} 4 + 4 \\ 4 + 4 \\ 4 + 4 \\ 4 + 4 \\ 4 + 4 \\ 4 + 4 \\ 4 + 4 \\ \end{array} $
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Music Electives Include: Voice/Percussion/Woodwinds/Careers and Finances/Music Teaching/Keyboard/Others As Announced Ensembles: Big Bands/Wind Ensemble/Combos/Vocal Ensembles/ Reading Ensembles

Public Relations

North Campus

Six semesters beginning September

Today's society demands accountability and responsible behaviour from both the public and private groups which make our life what it is. Obtaining good will through responsible action and ensuring the timely and accurate dissemination of information about an organization's operation is the core of modern public relations. Humber's program will prepare you for the demanding job of a professional public relations practitioner. In addition to the theory underlying modern Public Relations practices, you will use the various tools available to the PR practitioner from publicity to advertising, research to marketing, audio-visual presentations to film and TV. You will learn through practice and start writing your first stories and presentations on your typewriter from the first day.

In your sixth semester you will have the opportunity to work for four months in a public relations environment. Your future employer will be looking for these qualities: ability to write clearly and concisely with meticulously correct usage, painstaking attention to detail, enthusiasm, perseverence and the ability to understand other people's points of view.

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Admission Requirements

Ontario Secondary School Graduation Diploma pre-admission interview at which an aptitude test will be written

Semester 1	(24 hours/week)	C. It
Semester 1		Credits
	PR Writing 1 and PR Lab 1	4
	Effective Speech I	2
	Introduction to PR & Case Studies	4
at Mileria	Business Procedures & Marketing for PR	4
A DATE OF A DATE OF	Economics for PR	3
all shows	Communications 1	4
	General Studies	3
Semester 2	(25 hours/week)	
	PR Writing 2 and PR Lab 2	4
	Effective Speech 2	2
N 1 4 1 4	Introduction to Radio	2
puffe	Personal Dynamics	4
	Communications 2	4
	Political Science 1	3
A Park	General Studies Electives (2)	6
Semester 3	(21 hours/week)	
river any 2	PR Writing 3 and PR Lab 3	4
	Layout & Production for Print 1	3
	Intro. to Advertising	2
	Practical PR 1	2
and and in	Elements of FILM/TV	2
and the second	A/V Techniques for PR	2
Libral Libral	PR Research	2
	Photography for PR Practitioners	1
	General Studies	3
Semester 4	(24 hours/week)	
	PR Writing 4	4
	PR Lab 4	4
	Layout & Production for Print 2	3
	Seminar 1	3
	Case Studies 2	2
C. Share	Advertising Writing for PR	2
	Elements of Fund Raising	2
	Group Dynamics	4



COMMUNICATIONS PROGRAMS COMMUNICATIONS PROGRAMS

Job Opportunities

Graduates from the Public Relations Program have a wide variety of employment areas to chose from: corporate PR, special events, promotional work, publicity, fund raising, union PR, education PR, government, and PR associated with sales and marketing, with personnel, and with product promotion.

1. Statement	(221,	Credits
Semester 5	(22 hours/week)	2
	PR Writing 5	the second second
	PR Lab 5	8
	Seminar 2	3
	Practical PR 2	2
	Persuasion & Promotion	4
-	Computers for PR	1
and an and the	Layout & Production for Print 3	2
Semester 6	(2 hours/week)	stel on hand
	Field Work	2

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Radio Broadcasting

North Campus

Six semesters beginning September (also offered on weekends in four semesters)

Radio broadcasting is a competitive industry with a demand for highly qualified professionals in all of its segments. Humber's Radio Broadcasting Program continues to lead the field in radio education. It is designed to develop the 'total broadcaster'. Students are taught every aspect of the profession: writing, announcing, production, management, sales, programming, technical work, music direction, promotion, interviewing techniques, news and sport writing. Because the program maintains contact with the public and private sectors of the industry,

Curriculum

Semester 1	(23 hours/week)	Credits
S.R. Chowle in	Intro. to Radio	2
Concession of the	Op. and Engineering 1	2
Sector M	Radio Lab I	2
THE STRAND	Keyboarding 1	4
19 1918 IN 19	Political Science 1	3
1 down owned	Human Relations	3
State Intel	Communications 1	4
	General Studies	3
Semester 2	(23 hours/week)	
	Writing for Radio I	2
	Announcing Techniques 1	2
	Broadcast Techniques	4
	Operating & Engineering 2	2
	Radio Lab 2	and the second se



COMMUNICATIONS PROGRAMS

N.	Keyboarding 2	2
	Communications 2	4
	Radio News 1	2
	General Studies	3
Semester 3	(24 hours/week)	A.S
	Radio Drama 1	2
	Retail Radio Sales	2
	Communications Theory	2
	Writing for Radio 2	4
	Announcing Techniques 2	4
TALS	Radio Production 1	2
S. Balling	Linguistics 1	3
	Radio News 2	2
	General Studies	3
Semester 4	(24 hours/week)	Y
14.00	Radio Drama 2	2
	Writing For Radio 3	4
	Broadcast Research & Marketing 1	4
	Announcing Techniques 3	2
	Radio Production 2	2
N	Linguistics 2	3
The second second	Radio News 3	2
And Internet	National Radio Sales 1	2
Sec. 2.	General Studies	3
Semester 5	(18 hours/week)	M
	Radio Seminar	2
	Radio Lab 3	5
	Writing for Radio 4	4
	Announcing Techniques 4	4
	Broadcast, Research, Market. & Nat. Radio Sales 2	2
	The Media and PR	1
Semester 6	(37 hours/week)	RECEI
	Internship	35
	Case Studies	2

course content is relevant and reflects current needs. 'Hands-on' training is provided through the two closed-circuit radio stations operated by the program. Students in third year are all given opportunities to train at radio stations in the Metro Toronto area.

Admission Requirements

 Ontario Secondary School Graduation Diploma
 pre-admission interview and writing/vocal skills assessment

Job Opportunities

Graduates have found work all over Canada and, in fact, entry positions are normally in the smaller communities. Many of our broadcasters have become household names in the communities they serve.

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Theatre Arts



North Campus

Six semesters for the Performance option, four, in the Technical option

Humber's Theatre Arts Program offers two distinct options one toward acting (Performance) and the other toward production (Technical). Both these callings are satisfied through a wide range of practical courses designed to prepare students for work in professional theatre.

Performance Option

The curriculum for performance students includes: Acting Techniques, Movement, Voice, Text Analysis, Audition Techniques, Singing, Dance, Improvisation and Drama studies. Students learn by doing, through class productions and Mainstage Productions with performance on and off campus.

Additional performance and production opportunities are provided in association with the Film and Television and the Radio Broadcasting programs.

Theatre Technology Option

This option entails working in such areas as stage management, carpentry, drafting, design, properties, costume and special effects. Much of the student's time is also spent in cooperative work or field placement either as part of the Department's mainstage and workshop productions or with professional and community theatres.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- pre-admission interview and audition (for Performance option)
- students with previous practical experience will feel more comfortable in the audition/interview

Curriculum

Performance Option

Semester 1(25 hours/week)CreditsFundamentals of Theatre 12Performance 16Movement 13Voice 13Communications 14General Studies3Singing 12Improv. Text Analysis 12Semester 2(25 hours/week)Fundamentals of Theatre 22Performance 26Movement 23Voice 23Communications 24General Studies3Singing 22Improv. Text Analysis 22Semester 3(25 hours/week)CreditsFundamentals of Theatre 32Semester 3(25 hours/week)CreditsSemester 4(25 hours/week)CreditsSemester 4(25 hours/week)Fundamentals of Theatre 32Performance 312Movement 33Voice 33Semester 4(25 hours/week)Fundamentals of Theatre 42Performance 412Movement 43Voice 43Semester 5(22 hours/week)Credits3Semester 5(22 hours/week)Credits3Semester 5(22 hours/week)Credits3Semester 53Dance 12Mainstage Production 16	Performance Option				
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Semester 4(25 hours/week)Fundamentals of Theatre 42Performance 412Movement 43Voice 43Improv. Text Analysis 42General Studies3Semester 5(22 hours/week)CreditsPerformance 5A4Movement 53Voice 53Dance 12Mainstage Brack with the1	<u> </u>	Improv. Text Analysis 3	2		
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Performance 412Movement 43Voice 43Improv. Text Analysis 42General Studies3Semester 5(22 hours/week)CreditsPerformance 5A4Movement 53Voice 53Dance 12Mainstage Brack with the	Semester 4	(25 hours/week)	NUE.		
Movement 43Voice 43Improv. Text Analysis 42General Studies3Semester 5(22 hours/week)CreditsPerformance 5A4Movement 53Voice 53Dance 12Mainstage Brack with the		Fundamentals of Theatre 4	2		
Voice 43Improv. Text Analysis 42General Studies3Semester 5(22 hours/week)CreditsPerformance 5A4Movement 53Voice 53Dance 12Mainstage Production 12		Performance 4	12		
Improv. Text Analysis 42General Studies3Semester 5(22 hours/week)CreditsPerformance 5A4Movement 53Voice 53Dance 12Mainstage Production 1.2	C. C. Alla	Movement 4	3		
General Studies 2 General Studies 3 Semester 5 (22 hours/week) Credits Performance 5A 4 Movement 5 3 Voice 5 3 Dance 1 2 Mainstage Production 1.2		Voice 4	3		
Semester 5(22 hours/week)CreditsPerformance 5A4Movement 53Voice 53Dance 12Mainstage Production 1.1		Improv. Text Analysis 4	2		
Performance 5A 4 Movement 5 3 Voice 5 3 Dance 1 2		General Studies	3		
Movement 5 3 Voice 5 3 Dance 1 2	Semester 5		Credits		
Voice 5 3 Dance 1 2		Performance 5A	4		
Dance l 2 Mainstage Production L 2		the second se	3		
Dance l 2 Mainstage Production La		the second s			
Mainstage Descharting 1			the second se		
		Mainstage Production 1	6		



COMMUNICATIONS PROGRAMS

	Performance 5B	2	1400
	Performance 5C	2	
Semester 6	(22 hours/week)	T. W.S. A.	
AND AND	Performance 6A	4	
	Performance 6B	2	1 12
	Performance 6C	2	
	Movement 6	3	
and the second s	Voice 6	3	in the second
	Audit. Portfolio 1	2	E. C.
	Mainstage Production 2	6	1

Technical Option

Semester 1	(24 hours/week)	Credits
	Fundamentals of Theatre 1	2
- Maria	Carpentry 1	3
- man and man	Properties 1	3
	Analysis for Design 1	2
- Art Fare	Stage Management 1	4
The share	Communications 1	4
- Carlor	General Studies	3
Contraction of	Costume	3
Semester 2	(25 hours/week)	C NUMBER OF C 1 C AND
	Fundamentals of Theatre 2	2
and the second second	Lighting Technology	3
- Linda St	Sound Tech. 1	2
	Production Management 1	3
Ridey	Analysis for Design 2	2
ALL ALL A	Properties 2	3
and the loss	Communications 2	4
	General Studies	3
	Finance 1	3
Semester 3	(25 hours/week)	Credits
	Fundamentals of Theatre 3	2
	Lighting Design 1	4
	In Service Apprenticeship	9
	Sound Techniques 2	2
	Analysis for Design 3	3
	Special Effects 1	2
A STATISTICS	General Studies	3

Interests and Skills

 self-discipline, concentration and maturity

·ability to work as part of a team

Job Opportunities

Graduation is an important step toward success in professional theatre. In recent years, all graduates of Humber Theatre have found employment within six months as performers, production assistants and stage managers.

Expected Workload

Both options are demanding on time and energy and require a firm commitment to a work pattern similar to that found in professional theatre. Much of the course work extends far beyond the normal classroom timetable.

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DESIGN PROGRAMS

	(a) () ma (week)		
Semester 4	(26 hours/week)	2	
	Fundamentals of Theatre 4	4	
	Carpentry 2	4	
	Production Management 2	3	
	Special Effects 2	2	
	Special Effects 2	0	
	In Service Apprenticeship	,	-
	Analysis for Design 4	3	
	General Studies	3	

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Advertising and Graphic Design

North Campus

Four semesters beginning September

Humber's Advertising and Graphic Design Program provides a firm foundation of drawing, design and rendering techniques that a talented young designer requires.

Students are given working, studio-related experience in the design of graphics for newspapers, magazines, direct mail, outdoor advertising, corporate image, packaging, point-ofpurchase, television and computer design graphics. The program involves illustration, cartooning, photography, lettering and typography in layout, art and assembly for the various methods of reproduction and printing.

In two years you will learn what you need, to develop into a creative and competent graphic designer. We will help you realize your ability to put ideas on paper through courses in design, drawing and typography, in a way that will appeal to your future clients. The integration of photography and computer graphics will give you two more skills and an introduction to the roles played by computer technology in visual communications. To create practical concepts, you will need to know the basics of reproduction and the current methods in use in the graphic art field. To achieve this field, practice is essential, requiring dedication and hard work.

The Graphic designer's concern is the promotional aspect of social need and future technologies. Graphic designers interact with industrial designers who with form to the product and with package designers who created container. The graphic design creates the visuals to sell the product.

Admission Requirements • Ontario Secondary School Grad

- tion Diploma
- of 20 or more pieces and a sket book to demonstrate your design and drawing skills and establish your level of competency



DESIGN PROGRAMS

Curriculum Semester 1 (24 hours/week) Credits Graphics 1 2 Typography 1 3 Design 1 3 Studio Methods 1 2 Advertising 1 1 Photography for Graphics 1 3 Perspective 1 3 Communications 1 4 **General Studies Elective** 3 (24 hours/week) Semester 2 Graphics 2 2 3 Typography 2 Design 2 3 Studio Methods 2 2 Advertising 2 1 Photography for Graphics 2 3 Perspective 2 3 4 **Communications 2** 3 General Studies Elective Semester 3 (24 hours/week) 8 **Graphics 3** 3 Typography 3 4 Illustration 1 3 Mechanicals 1 3 Packaging 3 General Studies Elective Semester 4 (24 hours/week) 8 Graphics 4 3 Typography 4 4 Illustration 2 3 Mechanicals 2 2 Perspective 3 1 Intro. to Computer Graphics 3 General Studies Elective

Job Opportunities

The program prepares the student for employment in graphic design studios, advertising agencies, TV graphic studios, printing companies, magazine/newspaper/ book publishers, point-of-purchase, direct mail, package design units and in computer business graphics. Freelance activity provides further opportunity. A developing employment area is the graphic production and in-house departments in corporations and institutions.

Additional Costs

• An initial investment of \$600 + for art equipment and supplies is necessary. Throughout the program students should be prepared to spend approximately \$200 per semester in replacing consumable supplies.

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Industrial Design



North Campus

Six semesters beginning September

Look around you ... almost everything you see which is manmade originated as an idea in a designer's mind. Industrial Design is the discipline of giving form to tomorrow's products and environments. So, if you want to combine your creativity, your concern for the environment, a technical interest in how things are made and a desire to improve people's lives, this design program is for you.

To become a well-rounded designer able to shape tomorrow's products, you will have to become familiar with aesthetics, colour, style trends, shapes and materials, as well as manufacturing processes and human factors. You will learn to develop products and furniture for all types of residential, industrial and commercial purposes.

We will help you develop your ability to put ideas on paper (Design Presentations) in a way that will appeal to your clients (Design Applications/Design Futures).

Form Study and Model Making (Machine Technology) will help you to visualize future products before they are produced. You will also be introduced to the roles played by computer technology in product development. (Computers and Design).

Admission Requirements

 Ontario Secondary School Graduation Diploma

• interview with samples of your sketches, photographs of your hobbies, craftwork, artwork, school projects, etc.

	and a subscription of the second s	
Curriculum		0.1
Semester 1	(24 hours/week)	Credits
	Industrial Design 1	4
	Technical Communications 1	3
	Design Presentations 1 (Drawing Fundamentals)	4
	Elements of Design	3
	Modelmaking 1	4
	History of Art	2
	Communications 1	4
Semester 2	(24 hours/week)	
	Industrial Design 2	5
	Technical Communications 2	3
	Design Presentations 2	3
	Design Applications	3
	Art History	2
	Communications 2	4
	General Studies	3
Semester 3	(18 hours/week)	
	Industrial Design 3	5
	Design Presentations 3	3
	Materials & Processes 1	4
	Design Futures	3
	Design Graphics	2
	History of Industrial Design	2
Semester 4	(19 hours/week)	
	Industrial Design 4	5
	Design Presentations 4	3

Materials & Processes 2

Systems Development 1

Computers & Design

General Studies

4

3

2

And the platent of the

DESIGN PROGRAMS

Semester 5	(19 hours/week)	I CONTRACTOR
A. L. Law	Industrial Design 5	6
The second second	Advanced Materials Applications	2
A COLORADOR	Systems Development 2	3
and see a	Thesis 1	3
	Ergonomics	2
STR'IN	General Studies	3
Semester 6	(19 hours/week)	A STATE OF THE
	Industrial Design 6	6
THE REAL PROPERTY.	Thesis 2	5
	Portfolio	3
Section of the sectio	Design Management	2
a state from the	General Studies	3

Interests and Skills

ability to transform an idea into practical applications strong interest in the arts and in how things work in relation to people

willingness to work hard, pride in accomplishment and independent mind

Job Opportunities

Design has become important in today's business world. Our graduates find positions at different levels depending on their abilities. Sometimes they work as designers of commercial products, other times, as support staff for the research/design process. They are involved in product support (showroom design, model making), product promotion (coordination of brochures and photography), product research (market/consumer reactions), technical work (production planning, quality control, drafting and computer-aided design).

A few years after you graduate, you may work as a product designer for a manufacturer or in a consulting design office. You might design products such as home appliances, sporting goods, hardware, electronic equipment or furniture.

Expected Workload

You can expect to work hard and long hours if you strive for quality projects.

Additional Costs

- You can plan on \$300-\$400 per semester for books and supplies. A \$100 deposit on tools will be refunded when you return all the tools in good condition.
- Industrial Design relates to other design programs in that all of them develop an inquisitive mind and excellent creative visual skills. The product designer is usually more concerned with the practical aspects of social need, technology, and giving form to future products.

Interior Design

DESIGN PROGRAMS

Creativity, imagination, drawing skills, interest in living and work spaces are the attributes of the

Six semesters beginning

North Campus

September

Interior Designer. Humber's program provides the graduate with the knowledge and skills to analyse and solve interior design problems. It emphasizes such areas as space planning. construction technology, colour theory, specification writing, lighting, presentation techniques, and materials to ensure that the graduates of Interior Design can become effective members of a professional design team. Our interior design program has an exceptionally high reputation both in Canada and the United States. Humber students participate yearly in major international student competitions and are consistently winning major awards. In the sixth semester students are given opportunities to gain practical experience working in interior design offices.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- pre-admission interview with presentation of a portfolio and a studio skills test

Curriculum		0 "
Semester 1	(25 hours/week)	Credits
	Interior Design	5
	Drafting & Detailing 1	5
	Art History 1	2
	Freehand Drawing 1	3
	Design Theory 1	2
	Colour Theory	2
	Interior Basics	2
	Communications 1	4
Semester 2	(28 hours/week)	
	Interior Design 2	8
	Drafting & Detailing 2	5
	Art History 2	1
	Freehand Drawing 2	3
191.000	Perspective & Rendering	3
	Materials I	2
	Textiles	2
12 14-14	Communications 2	4
Semester 3	(26 hours/week)	
TILL HILL	Interior Design 3	10
In Della der	Drafting & Detailing 3	3
and the set	Art History 3	2
and the second	Perspective & Rendering 2	3
The Party is	Materials 2	2
	Graphics	2
and the second	Lighting I	2
	General Studies Elective	3
Semester 4	(27 hours/week)	
	Interior Design 4	10
	Drafting & Detailing 4	2
A second	Art History 4	2
	Perspective & Rendering 3	3
	Materials 3	2
	Photography	3
	Professional Practice	2
	Intro to Computer Aided Design	2
	Lighting 2	2
Semester 5	(23 hours/week)	and the
	Interior Design 5	9

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DESIGN PROGRAMS

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	Drafting & Detailing 5	3
	Perspective & Rendering 4	2
	Design Theory 2	2
	Aesthetics	2
	General Studies Elective	3
1477-014	Mechanical Systems	2
Semester 6	(18 hours/week)	Territo
	Interior Design 6	9
	Drafting & Detailing 6	3
	Perspective & Rendering 5	2
Carl In	Merchandising	2
	Environmental Studies	2
In-Office P	Practice	

Job Opportunities

Graduates find employment in interior design firms, store planning divisions of major department stores, government agencies (Department of Public Works, Department of Transport, etc.), architectural offices, contracting firms and furniture manufacturers. In addition, opportunities exist for freelancing.

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Additional Costs

• Approximately \$500.00 per academic year.

In-Office Practice (3 weeks apprenticeship)

Package Design

North Campus

Six semesters beginning September

One of the most common items to be found in a consumer society is the package. Humber's unique Package Design Program is dedicated to the training of young men and women in the design, manufacturing and marketing of packaging in its many forms.

You will be involved in graphic design, three-dimensional design, the relationship of design objectives to technological and marketing requirements, materials and their limitations, and the economics of the packaging industry.

Curriculum		mannin bernalis
Semester 1	(24 hours/week)	Credits
	Packaging Graphics 1	3
THE NEW YORK CALL	Packaging Design 1	3
State of the second	Packaging Typography 1	3
T TOPAL TO A TOPAL	Marketing Design Obj. 1	2
- P. P. R. P.	Packaging Technology 1	3
A States and	Packging Studio Methods 1	3
The second s	History of Packaging 1	3
-	Drawing l	3
The Dealers	Communications	4
Semester 2	(26 hours/week)	
Charles and services	Packaging Graphics 2	3
-	Packaging Typography 2	3



DESIGN PROGRAMS

The program emphasizes the psychology of colour and design, product protection, government regulations affecting the package, printing and reproduction processes, and the impact of consumerism on the design process. During the fifth semester, students are given the opportunity to specialize. In the sixth semester students are placed in cooperative work situations in design studios, packaging plants, packaging printers, and research facilities involved with package design.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- counselling interview
- presentation of a portfolio

Job Opportunities

Package designers find positions in design studios and in various industrial areas. You could specialize in structural design for corrugated and paper board plants. You could produce camera-ready artwork for printing houses or photo engravers. Some graduates have gone into sales, research or marketing for large packaging houses. A more recent area is the computer graphic design which will expand in the coming years.

Expected Workload

You can expect to work hard and long hours to attain the level of quality required in the industry.

Additional Costs

• You can plan to spend from \$300-\$400 per semester for art supplies and equipment.

	Cooperative Program (Field Work)	
Semester 6	(8 hours/week)	
	Business or Technology Electives (2)	
	Business or Technology Elective Package Design Option B +	14
	Package Design Option A +	14
	Graphic Design Option	14
Une of the	following options:	and the second
0	General Studies Elective	3
ter in the second	Packaging for the Future	3
the state of the s	Packaging Research 5	2
Semester 5	(22 hours/week)	N.C.
	General Studies Elective	3
	Intro. to Computer Graphics	1
	Public Relations	2
	Resource Management	3
	Packaging Machinery 2	1
	Printing Processes 2	2
	3-Dimensional Design 2	7
	Materials & Testing 2	2
	Packaging Research 4	1
Semester 4	(22 hours/week)	NY TONS
	General Studies	3
	Marketing Design Obj. 2	3
	Government Regulations 1	3
	Packaging Machinery 1	2
the second second	Printing Processes I	3
	3-Dimensional Design 1	8
and the second	Materials & Testing 1	2
	Packaging Research 3	1
Semester 3	(25 hours/week)	91.25
	General Studies	3
	Communications 2	4
Sec. Part	Perceptions & Colour	3
	Technical Illustration 1	3
	Packaging Research 2	2
	Packaging Studio Methods 2	
	Packaging Technology 2	3

Arena Management

North Campus

Three semesters (two of which are field work) starting in May

This program is designed to provide qualified graduates for certification as Arena Managers under legislation of the Province of Ontario. Management of an arena requires the skillful coordination of the functions of planning, purchasing, administration, refrigeration, promotion, programming and related public services. A combination of classroom and practical work will equip the participants with a broad range of training in the management skills in the complex operation of private and community arenas.

Admission Requirements

two years of previous post secondary study in Recreation Leadership or two years of equivalent experience in an arena

Job Opportunities

The employment rate is excellent, but most graduates enter the field in maintenance jobs or as arena attendants. After three to four years of field experience, advancement to management positions is possible. In a city arena with a \$200,000 budget and five or six employees, a serious graduate could eventually earn a salary between \$24,000 and \$30,000.

Arts Income in the other

Semester 1	(24 hours/week)	Credits
	Structure and Finance	4
A STATE	Program Scheduling 1	2
and the second second	Intro. to Accounting	2
	Refrigeration and Ice Making	4
i men s	Arena Construction, Design and Maintenance	4
	Concessions 1	2
and and	Personnel Administration	2
and for the second	Field Orientation 4 (for Recreation Leadership graduates)	4
tin viere	Communications 1 (for students with experience)	4

Semester 2 and 3

Supervised field work under the guidance of certified arena personnel and college staff in an arena approved by the College and the Ontario Arena Association Inc. All students will have to successfully complete a series of assignments by correspondence and Diploma graduates will attend a five-day session at the college in late March. LEISURE PROGRAMS

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Recreation Leadership

LEISURE PROGRAMS

Lakeshore Campus

Four semesters beginning September

This four-semester program is designed to train professional personnel in the areas of leadership, organization, administration, supervision and evaluation of a variety of recreation programs and facilities serving all ages. The curriculum will combine academic and professionally-related courses. skill laboratories, residential seminars, field practice and conference and workshop involvement into a significant learning experience. To satisfy the field practice requirements, direct experience in specific recreation agencies or departments is emphasized in the last three semesters.

Admission Requirements

- •Ontario Secondary School Graduation Diploma or equivalent
- •detailed resume and two letters of reference
- medical certificate signed by the physician

Interests and Skills

- experience in the recreation field in a leadership capacity
- general awareness of the nature and scope of recreation and career expectations consistent with the program content
- understanding of human behaviour and ability to relate effectively with a variety of people
- ability to independently participate in all recreation activities and outdoor education/recreation skills sessions

Job Opportunities

Graduates of this program will find opportunities in a variety of recreational agencies including: the municipal government, therapeutic institutions, conservation authorities and outdoor education centres, volunteer agencies, correctional in stitutes, private

Curriculum	A CONTRACTOR OF A CONTRACTOR	-O-I
Semester 1	(23 hours/week)	Credits
Semester 1	Intro to Recreation & Leisure Services	6
	Leisure Programming 1	4
	Advanced Emergency Care	3
	Field Practice 1	3
	Intro to Psychology	3
1.0	Communications 1	4
Semester 2	(25 hours/week)	A
	Leadership & Group Dynamics	2
_	Recreation Facilities	4
	Leisure Programming 2	5
	Human Growth & Development	3
	Field Practice 2	7
	Communications 2	4
Semester 3	(24 hours/wee k)	and the second
2	Outdoor Education/Recreation	4
	Philosophy of Leisure	3
	Recreation Personal Management	4
riteria hur	Recreation Finance	3
1.000	Intro to Sociology	3
	Field Practice 3	7
Semester 4	(24 hours/week)	A
	Physical Fitness	2
	Recreation Administration	6
	Recreation for Specific Populations	3
	Field Practice 4	7
	General Studies Elective (2)	6

organizations, and commercial establishments.

After a few years, the practitioner will be equipped to function at a management level where more administrative ta ks are performed. Most positions involve flexible schedules, often requiring some evening and weekend work.

Each semester there are additional travel or residential recreational experience swhich are important to the learning proces and raise the profile of our stude with future employers.

These additional activities as subsidized by the College with a minimal fee of \$200 per y ar cover travel and living expense charged to each participating student. Alternative comprehe sive projects are assigned to those students who may be unab to attend.

Ski Area Operation

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LEISURE PROGRAMS

North Campus

Post Diploma Program of Three Semesters (One Being a Field Placement)

The combination of business and technical content of this program will provide the graduate or mature student with the knowledge required to operate a ski area business. Because the ski industry is still developing, openings exist for those who have the required skills and education.

Admission Requirements

Mature student with two seasons of experience in at least one aspect of a ski resort or hotel or graduate of the Recreation Leadership or the Hospitality Management program.

Job Opportunities

For mature students, this program will usually bring them a step higher than the position they held before the course. But for those who had no experience, the entry jobs will probably be snowmaker, rental shop attendant, lift operator or ski instructor. Opportunities exists across Canada and relocation may be required.

In time, graduates reach the supervisory level up to middle management positions at larger resorts. In smaller resorts, they become area managers. Other jobs exist in ski shops or schools, in the merchandising of snow-making and grooming machinery, and in the distribution of ski equipment to retailers.

Semester 1	C/30 hours/week)	Credits
Start - Spinster	Ski Lift Operation & Maintenance	13
ment with hard	Snowmaking & Hillgrooming 1	3
- State -	Rental Shop Operation	2
The second second	Principles of Accounting	2
Part and the	Ski Resort Management	3
at Starting	Area Layout and Design 1	2
Not and the	Ski Area Field Research	4
1	Beverage Management	4
	Marketing	3
	Communications	4
Semester 2	(4 winter months)	
The Lot of	Field Work	7
Semester 3	(21 hours/week)	at man the said
States of the	Ski Resort Food Management	3
An Artanya	Ski Patrol & Risk Management	3
12 monthland	Ski Lift Operation & Maintenance	23
Contraction of the last	Area Layout & Design 2	3
net duit All	Ski School Management	2
- respectively	Ski Resort Personnel Administrati	ion 3
I maked out	Marketing Communications	2

A major educational field trip is included to give a realistic view of the industry and its personnel. A \$150 fee will cover travel and living expenses. Alternative comprehensive projects are assigned to students unable to go on the field trip. Field placement positions range from rental shop, snowmaking, ski instructing to ski patrol. You are encouraged to find your own job anywhere in Canada, but you will be assisted by a college supervisor if necessary. **Travel and Tourism**

Lakeshore Campus

Four semesters beginning September and January

You will learn to work effectively in positions that require very good communication skills, sales techniques, organization and experience in office procedures and business practices. You will become thoroughly familiar with many manuals used in the travel industry, ticketing, travel destinations and a wide range of current travel products. Accuracy and attention to details will constantly be stressed. This program does not qualify our graduates for careers as flight attendants.

Admission Requirements

•Ontario Secondary School Graduation Diploma or equivalent

Job Opportunities

Some of the areas where our graduates have found work are: travel counselling, wholesale and tour operations, accommodations and transportation. Most entry positions are in sales, reservations, and ticketing. Initially, the pay is low since the positions are usually at a junior level. As the travel industry is affected by seasonal travel patterns, many jobs require employee flexibility because of irregular working hours. After a few years of experience you may move into middle management positions.

Expected workload and expenses

Some courses require considerable self-directed learning. During the second year, students are assigned to working locations within metro Toronto for field practice. You shoud plan for some travel expenses. Depending on the availability of accommodations, students may wish to take the opportunity to go on an orientation trip to a major tourist destination.

Curriculum	and the little of	
Semester 1	(25 hours/week)	Credits
Demester	Tourism 1	2
11 2 40 2 50	Destinations Travel Geog.	4
Contraction of the	Basic Ticketing	3
	Travel Techniques A 1	3
market by all	Travel Techniques A 2	3
The state of the	Communications 1	4
of Plans	General Studies (2)	6
Semester 2	(26 hours/week)	
	Tourism 2	4
and the most of	Tariff & Ticketing 1	4
citizent saint	Office Procedures	3
dues P	Computer Concepts	2
1. South State	Communications 2	4
a mart	General Studies (2)	6
the Dillor	Keyboarding	2
Semester 3	(22 hours/week)	
R MARTER	Tourism 3	4
Seal (Seal)	Tariff & Ticketing 2	4
S. A. Well	Field Practince 1	3
Prynk I Spirith	Product Update 1	2
of the states	Travel Techniques B 1	3
all and they a	Travel Techniques B 2	3
ALAN	Salesmanship	3
Semester 4	(19 hours/week)	NAME OF
	Tourism 4	3
THE REAL PROPERTY.	Tariff & Ticketing 3	4
A STREET ST	Travel Techniques "C"	3
AL SALTS	Product Update 2	2
1. Antonio	Field Practice 2	3
The second second	Canadian Business Methods	3
		5

Field Trip

Two three-week placements will be arranged by a college supervisor during the last two semesters.

Horticulture (Apprenticeship)

North Campus

Basic 12-week course beginning November

Advanced 8-week course beginning February

This intensive program stresses practical learning through laboratory work in the college greenhouse, construction laboratory and arboretum. The only subjects unrelated to horticulture are an introduction to business and a course in communications. These courses provide the students with essential skills in today's business world.

Admission Requirements

•grade 10 (Ontario) •applicant must be working in the horticulture industry (landscape maintenance/construction, greenhouse/nursery/garden centres, parks departments, golf courses, arborist)

registration through the local apprenticeship branch office

Job Opportunities

Skilled labour in areas listed above in the beginning to move on later into jobs with more responsibilities such as foreman or manager.

Curriculum	I MANUE	
Semester 1	the branche strenbe	nie groen ster te offe
and the surger	Landscape Surveying	The second second second
HE PROPERTY	Turf Management	and a second
in the second second	Plant Identification	The purper is a fight
	Plant Propagation	and matters in some her
	Landscape Maintenance	an and the second
1 1 1 1 1 2 3 3	Communications	Merel Kowyood Zonachi 2
	Introduction to Business	mints and states
Sec. 16 (5)	Landscape Construction	Container A ser albert
ALCONT OF THE	Small Engine Maintenance	CAN BE REAL FOR THE
	First Aid and Safety	
See 1	Soils	the second second
1000	Entomology	a sure of the sure of the
Virtually al	Loosts are funded by	

Virtually all costs are funded by CEIC, and the apprentice in College receives unemployment benefits and may be eligible for additional support. You will need work clothes, safety boots, gloves, a hard hat and secateurs. SHORT PROGRAMS

Jockey Training

SHORT PROGRAMS

North Campus

This program is offered next in May, 1986, and lasts 10 weeks

The spectacle of thoroughbred horse racing is thrilling, dynamic and everchanging. To reach this final pinnacle of race riding the aspiring jockey must first spend several years learning about horses, care, basic riding, galloping techniques, working horses, breaking from the gate and apprenticing for a minimum of one year.

Humber College's ten-week Jockey Training Program provides young people with the preliminary training required for a successful start in such a career. Also, since the percentage of apprentice jockeys with the necessary talent, strength, size and feel to go on to become journeymen jockeys is relatively small, the program also provides back-up training for exercise riding and grooming.

Curriculum

Semester 1		
	Fundamental Equitation	45 hours
	Basic Exercise Riding	50 hours
	Physical Education and Weight Control	30 hours
	Practical Horse Care	90 hours
	Life Skills	30 hours
	Racing as an Industry and as a Sport	15 hours
and the second	Field Work	20 hours
		and a share of the second s

Admission Requirements

- personal interview
- •age 16 to 18 is recommended
- applicants should weigh approximately 100 pounds
- •literate in the English language
- a medical certificate confirming suitability for requirements of a Jockey license
- some experience with horses to verify interest in horses and an understanding of the kinds of jobs available
- Students currently enrolled in Secondary School:
- •For some students, in certain secondary school programs, it may be possible to obtain special permission from the school principal to attend the Jockey Program and return to write high school examinations. It must be recognized, however, that such decisions are made by the principal only where appropriate make-up work can be arranged. Secondary school students considering this should contact their principal no later than five months before the commencement date of the Jockey Training Program.

For further information on this program contact: The Equine Centre Humber College 205 Humber College Blvd. Rexdale, Ontario M9W 5L7 (416) 675-3475

Job Opportunities

Graduates of the program will find employment at the various tracks and racing farms through Ontario and the western province Starting positions may involve the graduate as a hot walker, grow or exercise rider, depending on the individuals past experience with horses and their degree of expertise.

Additional Costs

• Riding boots and helmet (approx mately) \$140



Business



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BUSINESS

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- -accounting
- -general
- -secretarial

Accountancy Diploma***

North and Lakeshore Campuses

Four semesters starting September

***New Program (North)

Six semesters starting September 1985

This program is designed to assist students in forming a base of studies so that they can assume the duties of an accountant in today's changing economy. In addition to accounting procedures, the program offers training in data processing, marketing, tax and corporate law, and management studies.

Admission Requirements

Ontario Secondary School Graduation Diploma (or completion of the Accountancy Assistant Certificale program at Keelesdale) Mathematics Assessment test to place students at their appropriate level

grade 12 academic or commercial maths, as well as English composition courses or equivalents

Note: A mathematics assessment test will be given to students to place them at their appropriate level.

Job Opportunities

The graduates of the Accounting Programs find jobs in accounts payable, accounts receivable, cost accounting, inventory control, internal auditing and payroll departments.

If you are seeking a professional designation, taking this program is a good way to start. Within two or three years of graduation it is possible for you to become a C.G.A. (Certified General Accountant) or an R.I.A. (Regisered Industrial Accountant) as the respective accounting associations will allow credits from this program toward their professional designations.

Curriculum	Sold provide the second of the	
Semester 1	Party of shares and a second state	
Moves - Lein	Introduction to Accounting 1	And the second second
atornal lines	Personnel	ACCOUNTING
	Elements of E.D.P.	and
	Marketing l	COMPUTER PROGRAMS
	Micro Economics	FINODIAMS
	Communications 1	
	General Studies Elective	
Semester 2	A REAL PROPERTY OF A REAL PROPER	100 H H H H H
	Introduction to Accounting 2	\$05
	Business Mathematics	
	Elements of Systems	
	Communications 2	
	Macro Economics	
0.001	General Studies Elective	and the second second
Semester 3	nos shall "	Number Co
- Martin Strength	Cost Accounting 1	
and all real	Intermediate Accounting 1**	
a la superiore	Elements of Law 1	and the second second
States of the second	Organizational Management 1	dan la la
	Business Statistics	
Semester 4	AND INCOMENTAL OFFICE	
al series	Cost Accounting 2*	in the second
	Intermediate Accounting 2*	A CONTRACTOR
and the second second	Introduction to Income Tax	2 2 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
and the second	Organizational Management 2	
	General Studies Elective	
	ent to 1 1/2 courses lent to 2 courses	
four semester on and gradua the additional	ay graduate in the program or continue ate after completing courses set out in e (5) and six (6)	
Semester 5	at react first sound that	the stream
	Quantitative Analysis 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	Income Tax 2	Sec. 1
de la ser	Computer Accounting 1	the second second second

Financial Controllorship 1

Advanced Accounting 1



Semesters 1 to 4 as shown. The courses offered in semesters five and six include more advanced accounting courses and also place an emphasis on Finance and Computer Applications. Successful graduates will receive additional credits towards receiving their professional designation as described on previous page.

Semester 6	
	Internal Auditing
	Computer Accounting 2
C. C. D. Hollow	Financial Controllorship 2
- 000	Advanced Accounting 2**

La Bureautique

Lakeshore	
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202

32 Semaines

Renseignements Généraux

La Bureautique: fonctionnement des systèmes informatisés est un programme de 32 semaines qui permet aux participants de se familiariser de facon théorique et pratique avec des systèmes informatisés de bureau.

Les cours se donnent en français et le travail pratique se fait avec des logiciels bilingues.

Conditions D'Admission

- DESO Diplôme d'Etudes Secondaires de l'Ontario
- ou Niveau 4: Cours Préparatoires à la Formation Professionnelle

• Dactylo 40 mots/minute

Possibilites d'emploi

Adjoint administratif Secrétaire de direction Traiteur de textes

Aide Financière

- •La Main d'oeuvre du Canada
- Ce programme a été approuvé par la Commission de l'emploi et de l'immigration du Canada. Si vous devenez éligible, la commission paiera les frais d'inscription et vous remettra une allocation

Curriculum	
ler Semestre	and the second se
and an end of the	Eléments de base en informatique
	Initiation à la programmation du micro-ordinateur
and a R	Initiation à la comptabilite
	Traitement de textes 1
	Rédaction de rapports
Starter 1	Le bureau et les systèmes informatisés
2ieme Semestr	e
nan or policies	Processus d'enregistrement
	Systèmes de communication des données
	Traitement des textes et des données en finances et en comptabilité
122.21	Traitement de textes 2 (avancé)
and service in the	Relations interpersonnelles
	Initiation aux affaires

hebdomadaire pour la durée des cours. Pour obtenir des renseignements au sujet de l'éligibilité au programme, contacter le Centre d'emploi du Canada.

· Prêt aux Etudiants

• Le gouvernement de l'Ontario possède un plan de prêt pour les étudiants qui y sont éligibles. Les conditions d'admission au plan sont:

- avoir 18 ans ou plus et
- être citoyen canadien ou posséder un statut officiel
- d'immigrant.

• Pour obtenir des renseignements sujet des prêts et subventions. contacter Le Financial Aids Offe du College Humber au (416) 675-3111 ou 252-5571.

Computer Information Systems Diploma

North Campus

Six semesters beginning September.

To meet the increased technical demands, growth and widespread use of computers in business, and the corresponding need for skilled graduates in this profession, Humber College is offering a three-year Computer Information Systems Program.

Each year of this program offers progressively more professionally oriented courses.

Included in the curriculum are courses on the major computer languages (BASIC, COBOL, PL/1 and Assembler), systems analysis and design, and advanced topics relating to data base, communications networks, systems audit and security, and systems structure and management.

0.105

Semester 1	the second se	State of the second second
	Elements of E.D.P.	T STREET
	Business Mathematics	And a long
	Marketing 1	ACCOUNTIN
and the second	Accounting Concepts 1	COMPUTER
to see the loss	Personnel	PROGRAMS
THE PLANE	Communications 1	and the second se
And the state	General Studies Elective	
Semester 2	the surgery and the surgery and by a	Martin Company
the patient open	Programming Techniques*	Ch of sufficient of
The State Cares	Introduction to Programming	A sector and
Sectorout in	Organizational Management 1	C. DOLLAR
A STREET	Accounting Concepts 2	SITE MITTON
A DESCRIPTION OF TAXABLE PARTY.		
	Communications 2	
Intro. to Prog	Communications 2 General Studies Elective taken with or after gramming, but not	
Intro. to Prog before.	General Studies Elective taken with or after	
Intro. to Prog	General Studies Elective taken with or after	
Intro. to Prog before.	General Studies Elective taken with or after gramming, but not Cobol 1	
Intro. to Prog before.	General Studies Elective taken with or after gramming, but not Cobol 1 System Control Functions	
Intro. to Prog before.	General Studies Elective taken with or after gramming, but not Cobol 1	
Intro. to Prog before.	General Studies Elective taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2	
Intro. to Prog before.	General Studies Elective taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2 Elements of Law 1	
Intro. to Prog before.	General Studies Elective taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2 Elements of Law 1 Systems Analysis 1	
Intro. to Prog before. Semester 3	General Studies Elective taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2 Elements of Law 1 Systems Analysis 1	
Intro. to Prog before. Semester 3	General Studies Elective Taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2 Elements of Law 1 Systems Analysis 1 General Studies Elective	
Intro. to Prog before. Semester 3	General Studies Elective taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2 Elements of Law 1 Systems Analysis 1 General Studies Elective Business Statistics	
Intro. to Prog before. Semester 3	General Studies Elective Taken with or after gramming, but not Cobol 1 System Control Functions Organization Management 2 Elements of Law 1 Systems Analysis 1 General Studies Elective Business Statistics Cobol 2	





Admission Requirements

•Ontario Secondary School Graduation Diploma or mature student status

• Grade 12 academic or commercial mathematics, as well as English composition courses or equivalents

Note: A mathematics assessment test will be given to students to place them at their appropriate level.

Job Opportunities

Graduates of this program will be able to enter the demanding and highly dynamic area of information systems in a wide range of modern business environments. They will be able to progress in such careers as: computer operations, programming, systems analysis and design, or eventually into management.

1 x 2
Assembler 1
Network Design and Architecture
Structured Systems Analysis
Comparative Systems
Data Base Administration and Design
Project Management
Applied Programming Methodology
Systems Structure and Management
System Audit, Controls & Security
Program Products Seminar
Small Business Computer Applications



ACCOUNTING and COMPUTER PROGRAMS

Computer Programming Co-op Diploma

Curriculum

North Campus

Six semesters beginning September or January

This program offers an educational opportunity in Computer Programming with a unique combination of academic training and 'on-the-job' experience. For four academic semesters the successful, mature candidate will undergo studies in computer programming, systems and related areas. These academic semesters are basically the same as the 64-week Computer Programming program and compare favourably with the three-year Computer Information Systems program.

During the Co-op program, students will alternate the academic semesters with two semesters of related work experience. During this time, successful students will be employed in the data processing field to become aware of the reallife business situation and prepare them for a career in this profession. The work term will also offer the student an understanding of the various computer-related career paths.

Since the work terms are an integral part of the program, they will be treated as academic credits with an assignment component.

Admission Requirements

Ontario Secondary School Graduation Diploma or equivalent, plus two years of business experience or equivalent

mature student status and an oncampus interview

grade 12 academic or commercial mathematics, as well as English

Composition courses or equivalents Note: a mathematics assessment test is required to place students at their appropriate level

Semester 1		
San Street	Introduction to E.D.P.	
A TAKA - W	Programming Fundamentals	141
MUCL P Stelle	Programming Techniques	1
	Accounting Concepts 1	191
	Business Math*	ora
	Communications 1	2
	General Elective	
	ssessment test is re this course begins	
Semester 2	COLUMN CONTRACTOR OF THE OWNER	
to data centra	Cobol 1	-
	Intro to Systems Analysis 1	-
	System Control Functions	-
	Accounting Concepts 2	
1.2	Business Elective	
19	General Elective	
Semester 3		1
4.7%	Work Term	
Semester 4	Street and a little state of the state	
-	Cobol 2	
	Data Base	X
	Introduction to Systems Analysis 2	1
100 Party	RPG	
	Business Statistics	-01
	General Elective	

Semester 5

Work Term



ACCOUNTING

COMPUTER

PROGRAMS

and

205

Job Opportunities

The program produces a graduate who enters the business community as a valuable member of an information-processing team, generally at the junior or maintenance programmer level. Opportunities for advancement in this field are excellent particularly if additional courses are taken to maintain an edge on this exciting and changing field.

Semester 6 /	
	Assembler 1
	Network Design and Architecture
The second second second	Program Products Seminar
-	System Audit, Control and Security
- Aller and -	Data Base Administration and
	Design
	Applied Programming Methodology
	Data Base Administration Design Applied Programming Methodology

Computer Programming

North Campus

Sixty-four weeks starting September, January or May

This program is essentially an upgraded version of our highly successful one year (52 week) program. The successful, mature candidate will be a person with several years of business experience or one who is transferring from another college or university. For four academic semesters, the student in this program will undergo studies in computer programming, systems and related areas. These academic semesters are basically the same as the Computer Programming Co-op program and compare favourably with the three-year Computer Information Systems program.

The program starts three times per year (September, January and May) and students graduate at the end of four consecutive semesters without the normal summer semester break of most other programs.

A number of students in this program receive sponsorship from CEIC, but this still leaves a number of openings for other applicants to the program.

Admission Requirements

- •Ontario Secondary School Graduation Diploma or equivalent or mature student status
- aptitude test may be required • grade 12 academic or commercial
- mathematics, as well as English composition courses or equivalent

Note: a mathematics assessment test will allow the Division to place students at their appropriate level.

Curriculum

Same as semesters 1, 2, 4 and 6 on preceding page (Computer Co-op).

Data Processing Diploma

North Campus

Four semesters beginning September.

The objective of this two-year program is to provide the student with a broad knowledge of the data processing function in today's modern business environment. This enables the graduate to function as an entry-level programmer or as a knowledgeable enduser of data processing.

Admission Requirements

•Ontario Secondary School Graduation Diploma or equivalent •aptitude test may be required •grade 12 academic or commercial mathematics, as well as English composition courses or equivalents

Note: A mathematics assessment test will allow the Division to place students at their appropriate level.

Job Opportunities

Upon completion of the program, the graduate should be able to function either as a junior programmer or in any other capacity where a knowledge of small and/or large computers is a requirement, such as, a familiarity with user application software package.

Semester 1	Tologial Brandardar	210
A STREET	Elements of E.D.P.	
and the state	Business Mathematics	
- Interior	Marketing 1	ACCOUNTIN
ALL IN MARKING	Accounting Concepts 1	COMPUTER
antis class	Personnel	PROGRAMS
and the second	Communications 1	
State Bra	General Studies	
Semester 2	The second	710
N. (1. 1997 20-1)	Programming Techniques*	
- ALL STREET	Programming Fundamentals	
Andre	Organizational Management 1	The second s
21 minuted	Accounting Concepts 2	
and the first of the	Communications 2	
a and and	General Studies	
Semester 3	and he was the second	
	Cobol 1	
and the second second	RPG 2	Service States
1000	Intro to Systems Analysis 1	
	Organizational Management 2	
a It toles	Elements of Law 1	3 mil 1943
110 200	General Studies	-
Semester 4		
a second	4th Generation Languages	
	Small Business Computer Applications	
	System Control Functions	
2 mer / m	Business Statistics	
	Micro Economics	
	General Studies	

*Must be taken with or after Programming Fundamentals, but not before.

Microcomputer Business Applications

Lakeshore Campus

Three semesters beginning September.

ACCOUNTING and COMPUTER PROGRAMS

This program will train students to operate a microcomputer in a business environment. Graduates will have a detailed knowledge of accounting practices, mailing lists, inventory control, word processing, and work scheduling. Not only will they be able to design and program their own business software but they will also be able to customize commercial products to suit the needs of their employers. They will learn about various types of microcomputers and the strengths and weaknesses of each. The use of the peripherals (disk drives, printers, modems, etc.) will be a part of the course. Language skills will enable them to communicate with their fellow workers and they will also have the ability to produce high quality documentation to be used with the computer programs. Word processing interfacing techniques, programming, and keyboarding will all form a part of the program.

Curriculum		_
Semester 1		
L To says	Introduction to Accounting 1	
And Advantage	Business Mathematics	
in the s	Personnel	
	Elements of E.D.P.	
in the second	Micro Programming 1	
and the sales	Micro Fundamentals	
e publication	Business Report Writing	
Semester 2		
and the second second	Introduction to Accounting 2	
a lattice of	Automated Office Mgmt.	
A Part of the second second	Hardware & Software Systems	
and Supervised	Organizational Management 1	1
And the second second	Comparative Languages 1	
which side	Micro Programming 2	
	Micro Systems Analysis 1	ų
Semester 3		
100 5100	Automated Accounting Systems	
	Comparative Micro Languages 2	
A AMAGE	Microcomputer Applications	1
We the line of	Data Base Management Systems*	
eaver the	Business Presentations	
	Statistics	

Job Opportunities

Graduates working in a business office may be involved in microcomputer applications in payroll, general ledger, accounts payable, accounts receivable, invoices, mailing lists, inventory, word processing, and work scheduling. Others may be employed in professional offices by pharmacists, doctors, lawyers and dentists. Openings are being created in libraries, schools, hospitals, computer stores, and sales forces. With some experience, you may wish to become consultant in this rapidly changing field. Employment can also be found in such areas as process control, machine and environmental control in small manufacturing, retail and service concerns, as well as small divisions of larger corporations that are now able to use their own computer.

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Office Systems Operations

Lakeshore Campus

Two semesters beginning September

This program will train students to operate and manage an office information system. Graduates will be able to perform all the basic and advanced word processing functions (text preparation, document management, etc.), on a minimum of three different word processors. They will be able to operate other information systems such as records processing, data communications, personal and decision support.

Admission Requirements

Ontario Secondary School Graduation Diploma or equivalent typing speed of 40 net words per minute

Job Opportunities

Most sectors of business and industry require now, or will require in the near future, information processing personnel. Graduates of the Office Systems Operations will find entry positions in word processing, information processing and administrative functions. Promotions to word processing supervisor and administrative assistant levels could occur after a period of work experience.

Curriculum		
Semester 1	the second state of the second state of the second state of the	Contraction of the local division of the loc
and the second	Elements of E.D.P.	and my
RU- 23/	Spread Sheet – Software	ACCOUNTIN
and the second	Intro to Accounting 1	and
- million march	Basic Word Processing*	COMPUTER PROGRAMS
	Business Report Writing 1	
and the second	Automated Office Systems 1	San martin
Semester 2	and a second sec	
1915 1144	Business Report Writing 2	mient in an
No. 1 In The	Records Processing	2012
	Data Communication Systems	
Sector Sector	Data & Word Processing in Accounting & Finance	and the second
	Advanced Word Processing*	
105 4 10	Interpersonal Skills	
	Intro to Business	Last of Cash
*Denotes d	ouble course	

*Denotes double course

- service the state of the

An Introduction to Management Studies

MANAGEMENT

The Management Studies Diploma Programs at Humber College provide the student with a thorough background in all aspects of basic management training. In line with our goal of meeting the needs of the student, we have adopted what is referred to as the 'through-way option' concept. This concept provides the student with the highest degree of flexibility in choosing courses appropriate to individual career goals.

The Business Administration Diploma Program (36 courses, three years, six semesters) offers, in addition to the regular stream, options in Operations Management, Management Systems, and Marketing Management.

The General Business Diploma Program (25 courses, two years, four semesters) offers options in the following areas: Business Management Personnel Management Legal Assistant Approved Specialized Areas

Since both these programs generally provide a common core of required business courses in the first two semesters, transfers in the first year from program to program, if handled with proper consultation, can be achieved relatively easily. The following options are available:

(A) The student may enter at the first-semester level into the Business Administration Diploma program, with the goal of attaining the three-year diploma. The student may, however, in consultation with the Management Studies Program Coordinator, change programs at an appropriate time, and elect to graduate after two years with the General Business Diploma in one of the recognized options, or may choose to enter another Business Program. The student should be aware that following this option might entail picking up additional courses. (B) The student may enter at the first-semester level into the General Business Diploma program and graduate after two years in a recognized option.

(C) The student may enter at the first-semester level into the General Business Diploma program, and at an appropriate time, in consultation with the appropriate Program Coordinators, transfer to one of the other Business Division Diploma Programs (Accounting, Marketing, etc.). The student should be aware that following this option might entail picking up additional courses in professionally related areas.

(D) After graduating from a twoyear Business Diploma program, a student may enter into the third year (semester 5) of the Business Administration Diploma Program. The student should be aware that this option will entail picking up additional courses in professionally related areas.

(E) The student may enter at levels higher than first semester, upon receiving advanced standing for courses completed in Grade 13. at another College of Applied Arts & Technology or at University with prior academic counselling from the Management Studies Program Coordinator. The student may enter either the General Business or the Business Administration Diploma Program at the determined level. It must be emphasized that proper and timely academic counselling by the Management Studies Program Coordinator is important in all of the above options.

PART-TIME STUDIES

The Management Studies Department offers several management certificates in the evening. A student may choose any of the following areas of study. Business Administration Certificate

Business Management Certificate General Business Certificate Operations Management Certificate

Personnel Management Certificate

These certificate programs would be of interest to people currently within the industry, or for the more mature person wishing to gain entrance to this field and other business programs on a parttime basis.

For further information, please consult the Continuous Learning brochure, or call 675-5016 or 252-5571.

Business Administration Diploma*

North and Lakeshore Campuses

h

<mark>Six Seme</mark>sters Beginning September

This diploma program provides students with practical and comprehensive knowledge of all basic business functions, such as: accounting, human resource management, marketing and computer usage.

Admission Requirements

•Ontario Secondary School Graduation Diploma or equivalent, or mature student status •aptitude test may be required •grade 12 academic or commercial mathematics, as well as English composition courses or equivalent Note: A mathematics assessment est will enable the Division to place students at their appropriate level.

Job Opportunities

Three-year Business Administration graduates are extremely well received by the business community. Regular option graduates normally accept employment in junior management positions in areas such as: general management, sales, sales promotion, production and distribution. Management Systems option graduates accept employment in areas generally related to production and inventory control, methods and procedures analysis, and information processing and control. Operations Management graduates typically accept positions in production control, production and inventory management, product quality assurance and methods improvement.

Curriculum

All options follow a common curriculum in the first year (2 semesters) of the program.

Semester 1

	Personnel	MANAGEMENT
and the second	Marketing I	STUDIES
	Elements of E.D.P.	-
CIEVE DUCTO	Introduction to Accounting 1	
A ANA SEA	Micro Economics	
1. A. T. T. A.	Communications 1	
Semester 2	and the second s	
at a stand have	Elements of Law 1	
and make ou	Business Mathematics	
C. Harrison and	Marketing 2	
and the second	Introduction to Accounting 2	
and the second	Macro Economics	
	Communications 2	

Marketing Management option graduates generally begin in the areas of retail and wholesale sales and in general marketing administrative positions. Further specialization may be offered in the sales promotion, advertising, and distribution areas. In the past, graduates have also attained management positions after a period of training and work experience.

Students interested in Office Systems Administration please refer to 216.



MANAGEMENT STUDIES

Curriculum

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North Campus

Regular Option

This option allows for a higher concentration in Economics studies, as well as for a degree of choice with four business electives in semesters 4 and 5.

Semester 3	
	Managerial Accounting
	Organizational Management 1
	Elements of Systems
Contraction of the second	Business Statistics
A A R (PAR)	General Studies Plus one of:
Angelation	International Economics
A DAME OF	Money, Banking & Finance
DO FOR	Economic Development
Semester 4	
	Organizational Management 2
South States	Quantitative Analysis 1
and the state	Manufacturing Operations
ALC: NO	Business Elective
	General Studies Plus one of:
	International Economics
	Money, Banking & Finance
	Economic Development
Semester 5	
	Business Policy 1
	3 Business Electives
mar ange	2 General Studies
Semester 6	
	Business Policy 2
Conversion.	Personnel Management & Develop- ment
and the second	Computer Applications
	Corporate Finance
A Shares	Quantitative Analysis 2
	Advanced Marketing Administra- tion

Management Systems Option

North Campus

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In response to the current competitive environment, business managers are turning to Electronic Data Processing (E.D.P.) systems to improve both the efficiency and effectiveness of the firm's operation. Moreover, E.D.P. effectiveness depends not only on the E.D.P. specialist, but on the ability of managers to understand its implication and effectively manage and control its implementation. The Management Systems Option of the Business Administration program is designed to enhance the sudent's understanding of this area.

Curriculum	The second second second second second	
Semester 3	Distance in the second second	Control .
Stranger Section	Quantitative Analysis 1	ALM CONTRACT
and a stratery	Business Statistics	
C CH LINE	Managerial Accounting	
Cast I fair	Organizational Management 1	MANAGEMENT
during and	Programming Fundamentals	
AND OF BRIDE	2 General Studies	
Semester 4	and a support of the second	17. I I
and a straight	Intro. to Systems Analysis 1	
M No. Ing.	Advanced Marketing Administra- tion	
Constant of the	Quantitative Analysis 2	
and the same of	Organizational Management 2	66 <u>60</u> 00 75587
-	Manufacturing Operations	
	General Studies	
Semester 5		
and the second second	Intro. Systems Analysis 2	1000 C
and the second	Cobol 1	
1.41	Systems Structure and Management	
and the second second	Business Policy 1	
and the second sec	2 General Studies	
Semester 6		
	Structured Systems Analysis	
	Small Business Computer Applica- tions	
I I I I I I I I I I I I I I I I I I I	Comparative Systems	
	Business Policy 2	
10000	Personnel Management & Develop- ment	
	Corporate Finance	



MANAGEMENT C STUDIES Marketing Administration Option

North Campus

This option will enable the Business Administration student to acquire specific background in the consumer marketing field. Basic training in marketing strategies will be provided in the early semesters. Training in advanced theories is scheduled for the final year. The student will be able to choose from four broad areas of specialization. These include the areas of marketing research, advertising and sales, marketing logistics and retail operations.

Curriculum	A PARTICIPACITY OF A PARTICIPACI
Semester 3	
and the metal of	Business Statistics
Contract Income in	Managerial Accounting
and the second	Organizational Management I
	Elements of Systems
/ all the sub-	Elements of Advertising
(WHAT IS A PARTY AND	General Studies
Semester 4	
1.4.4	Quantitative Analysis 1
COMPANY (Second Second Se Second Second Seco	Organizational Management 2
	Marketing Research
	Manufacturing Operations
	2 General Studies
Semester 5	
	Salesmanship
	Business Policy I
- 31255 AV	Quantitative Analysis 2
	Marketing Research 2 OR
	Physical Distribution
(م با بولگاندان	Fundamentals of Retailing 1 OR
	Advanced Advertising
	General Studies
Semester 6	
	Computer Applications in Market- ing
Carl Second	Advanced Marketing Administra- tion
and the second	Business Policy 2
	Personnel Management and Devel- opment
	Corporate Finance
	Export Marketing OR
	Sales Management OR
	Fundamentals of Retailing 2 OR
	Marketing of Micro Computers

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Microsystems Management Option

North Campus

To meet the needs of business for microcomputer-oriented Business Administration graduates, the Microsystems Management Option has been developed. Graduates of this option will

Graduates of this option will have applied their knowledge of accounting, inventory control, scheduling, etc. to microcomputer application. They will learn to design and program business software, customize commercial software to specific application. They will learn to use various types of microcomputers and peripheral hardware. The Business Administration Program is adjusted by replacing the eight business electives with the following microsystem courses:

Curriculum	international international international internation
Semester 3	The second secon
	Micro Fundamentals
	Micro Programming 1
	Micro-Systems Analysis 1
	Micro-Programming 2
1	Comparative Language 1
14.2 630	Hardware and Software Systems
	Micro Applications
- Andrew	Data Base Management





Operations Management Option

North Campus



In order to respond to the need for highly-qualified graduates in the manufacturing community, the Operations Management Option has been structured to allow the Business Administration Graduate to specialize in such important areas as methods improvement, purchasing, production and inventory control, work measurement and physical distribution. This option also provides the graduate with managementrelated courses necessary for a successful manufacturing environment.

Curriculum	
Semester 3	
	Managerial Accounting
	Organizational Management 1
	Elements of Systems
	Business Statistics
	Manufacturing Operations
	General Studies
Semester 4	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1
	Organizational Management 2
	Quantitative Analysis 1
	Advanced Marketing Administra- tion
	Methods Improvement
	Principles of Purchasing
	General Studies
emester 5	1.442
	Business Policy 1
	Work Measurement
	Production and Inventory Manage-
	Physical Distribution
	2 General Studies
mester 6	
	Business Policy 2
	Personnel Management & Develop-
	Computer Applications
	Corporate Finance
	Quantitative Analysis 2
	Facilities Planning

General Business Diploma

North and Lakeshore Campuses

Four semesters beginning September.

A basic business education is provided for students taking the regular Business Management Option. The program also offers the opportunity to specialize in a particular field of interest.

Admission Requirements

Ontario Secondary School Graduaton Diploma or equivalent aptitude test may be required grade 12 academic or commercial mathematics, as well as English composition courses or equivalent. Sudents must be interested in a service-oriented career.

Note: A mathematics assessment test will be given to students to place them at their appropriate kvel.

Curriculum

All options follow a common curriculum in the first year (two semesters) of the program except where noted(*):

Semester 1		ACT A TOTAL	
	Personnel	Contraction of the	MANAGEMENT
a sup series	Marketing 1		STUDIES
2111 C 199	Elements of Law	A STATE OF THE STATE	and a state
Service of the	Intro. to Accounting 1	A CONTRACTOR	100
	Micro Economics	berry martine	-
CONC. Shirts	Communications 1		
	General Studies	12.11.2.4.4	
Semester 2			
N	Organizational Management 1	and the second	
	Business Mathematics*		
	Elements of E.D.P.		
	Communications 2	Statistics and	
10 M	2 General Studies*		
	ester two, students f the following		

Business Management option Personnel Management option Approved Specialized option

Legal Assistant option

*Commercial Law 254-130 for Legal Assistant plus 1 General Studies Elective.

Approved Specialized Options There are circumstances where students have particular management training requirements. Therefore, a tailored program may be structured with the assistance of the program coordinator from a wide variety of credit courses offered by the College. All specialized options must be approved.



MANAGEMENT

STUDIES



Graduates generally do not receive positions directly in the personnel area of organizations but in departments which, with some additional in-house training, eventually lead to personnel positions. Career goals for these graduates are in the areas of inhouse training, program supervision, benefits management, employment interviews, and labour contract administration.

Semester 3	Thirty on
Junester	Organizational Management 2
	Elements of Salary & Benefits Administration
	Business Statistics
	Manufacturing Operations
	Business Elective
and the set	General Studies
Semester 4	1 Transaction of the Section of the
	Personnel Management & Develop- ment
	Elements of Pension Plans and Group Insurance
	Labour Relations
	3 Business Electives

Business Management Option

This option eventually leads experienced graduates to supervisory and management positions in business and industry. Entrylevel jobs are at a more junior level. You may wish to take this option to obtain a general management background and slightly tailor your program by your choice of electives.

Curriculum Semester 3 Organizational Management 2 Business Statistics Manufacturing Operations Elements of Systems Intro. to Accounting 2 General Studies Semester 4 Marketing 2 Quantitative Analysis 1 Macro Economics 3 Business Electives

Legal Assistant Option

Curriculum

North Campus

Legal Assistant graduates are hired by organizations such as large and small law firms, government departments and their agencies, life and general insurance companies, trust companies and others. Their duties generally require them to perform tasks with some legal complexity without requiring the extensive training of a lawyer, for example, title searches, conveyancing, document preparation, real estate closings and claims adjusting.

Semester 3		
5. Sec.	Organizational Management 2	THE REAL PROPERTY OF
PERMIT	Real Estate 1	
Completion of	Family Law	LUNE .
	Elements of Salary & Benefits Administration	MANAGEMENT
a set of the set	Criminal Litigation	the and easy
	General Studies	And Street of Street
Semester 4	San State Street and Street	Law and
	Real Estate 2	
in Linda	Will and Intestate	at he wanted
A Company	Basic General Insurance	ten ella field
	Court Procedures	
	Labour Relations	a de la
	General Studies	- 1 co 1 co 1 co

Marketing Diploma

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MARKETING PROGRAMS



North and Lakeshore Campuses

Four semesters beginning September.

The aim of this program is to introduce students to the broad scope of marketing in today's consumer market. Emphasis is placed on the analysis of new product decisions, distribution, promotion, and pricing strategies and their administration in practice.

The program offers several specialization options through the choice of marketing electives. Initially, semesters one and two familiarize students with the basic state of the art. Semesters three and four offer the choice of a specific career option in the general marketing and merchandising areas. For further information, contact the Program Chairman.

Admission Requirements

- Ontario Secondary School Graduation, or equivalent
- •Grade 12 academic or mathematics, as well as English composition courses. Students will be pretested with a mathematics and English assessment test to assist in determining a student's starting level in these subjects.
- Note: the math assessment test is required before the course begins.

Job Opportunities

• This program generally leads to retail and wholesale sales and general marketing positions. Other entry jobs may include customer service, distribution or management trainee. If you need more specific information on the placement of our graduates, come to our Placement Office to research the job listings.

Curriculum	a second discussion of the second discussion
Semester 1	
in the later of	Personnel*
	Marketing 1*
	Business Mathematics*
	Intro. to Accounting 1*
	Communications 1
Sec. 1	General Studies
Semester 2	
	Elements of Law 1*
1	Marketing 2*
	Fundamentals of Retailing 1
	Elements of E.D.P.*
	Micro Economics*
	Communications 2
11 M 10 10 10	General Studies

*Core subjects are basic Business courses that are a prerequisite to the Marketing Administration course.

Marketing Elective Courses Offered In Third And Fourth Semesters:

Physical Distribution Sales Promotion Advanced Advertising Sales Management Fundamentals of Retailing 2 Starting a New Business Export Marketing Computer Applications in Marketing Marketing of Micro Computers Retail Buying for General Merchandising Visual Merchandising Strategies Dynamic Entrepreneurship and Your Success Strategies

Curriculum	Contraction of the second s
Senester 3	and where the second second second
-	Elements of Advertising
	Salesmanship
	Organizational Management 1
	Marketing Research
	Business or Marketing Elective
S. C. S.	General Studies
emester 4	
The sea	Marketing Administration
	Organizational Management 2
-	2 Marketing Electives
	Business or Marketing Elective
	General Studies

General Marketing Option

In the third and fourth semesters, students will select five marketing and/or busines courses that best match their needs and abilities. A minimum of three marketing courses must be chosen. This option is suitable to the individual who wants a more general marketing and/or sales background.

Job Opportunities

Employment can be found in sales, marketing trainee positions, distribution, and marketing administrative support areas. MARKETING PROGRAMS

Merchandising Management Option In the third and fourth semes-

ters, students seeking a retail orientation will follow the curriculum outlined here. Retailers such as department stores and specialty shops are among Canada's largest employers.

Job Opportunities

• Most of the products we buy come from retail outlets, large or small. Sales and management opportunities in the merchandising and retail fields are abundant.

Curriculum

Semester 3	
	Elements of Advertising
C. T. T. S. C.	Marketing Research
	Salesmanship
	Organizational Management 1
	Fundamentals of Retailing 2
	General Studies
Semester 4	
	Marketing Administration
	Organizational Management 2
	Sales Management
	Physical Distribution
	Sales Promotion
S COLORING	General Studies

Retail Co-op Diploma

North Campus

Four consecutive semesters beginning September

Retailing is an industry of continuous change, variety and excitement. It is fast moving, competitive, and at all times challenging. In many respects, retailing requires greater skills for survival and success than any other business. Successful retailers must learn to combine the rigid requirements of science with the creative aspects of art. Retail activities such as market research, inventory control and financial planning require the discipline of a science. Other activities such as personal selling, interior store design, advertising, merchandising and display demand creativity and innovative thinking.

The Retail Co-op Program is a unique program offered by Humber College in cooperation with the Retail Council of Canada. It is specifically designed to train the student in current retail skills in the above areas, and to provide an opportunity to practice those newly-learned skills in paid on-thejob training with a suitable retail company.

Admission Requirements

- •Ontario Secondary School Graduation Diploma or equivalent
- grade 12 mathematics
- completed interview sheet, retail skills test, interview by a member of the program faculty or representative from the retail industry
- completed interview with the company with which a student will work during the industry component of the co-op program
- Although every effort is made to match the candidate with a suitable retail placement, the College cannot guarantee that a job will be available for all applicants. Previous retail work experience is beneficial but not essential.

Curriculum

The program will cover four consecutive semesters, each composed of an in-college theoretical portion, and an "on-the-job" unit in which course material will be put to practical application

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composed of a	n in-college theoreti-
Semester 1	
	Orientation to Retailing
	EDP Retail
	Retail Math
	Sales and Selling Skills
	Retail Accounting
	Communications 1*
Semester 2	
A	Receiving and Inventory Procedures
	Inventory Management Principles
	Store Planning & Merchandising
	EDP Retail
	Communications 1*
	General Studies
Semester 3	
	Visual Merchandising
	Retail Advertising and Promotion
	Selling/Sales Management
	Buying Orientation
	Distribution Centres
Semester 4	
-	Customer Relations
	Portfolio Presentations
	Internship
and the second	Communications 2

General Studies

*To be taken in both semesters: a half course per semester.

Additional Costs

• There may be relocation expenses involved, depending on placement, during the co-op period. Textbooks and supplies first year \$175, second year \$75, approximately.

Job Opportunities

At the entry level of retailing, the following positions can be obtained: management trainee, department and chain stores, Assistant Buyer, speciality and chain stores, assistant in inventor, management, display or advertising.

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MARKETING

PROGRAMS

Executive Secretary Diploma

North Campus

Four semesters beginning September and January

This program will provide the raining needed to prepare the sudent for the role of secretary to a business executive. In addition to developing skills in shorthand, machine transcription and keyboarding, emphasis is placed on specialized fields such as engimeeting, architecture, personnel, public relations, finance, government and transportation.

Admission Requirements

Ontario Secondary School Graduaion Diploma or equivalent grade 12 English minimum keyboarding speed of 30 mpm (40 gwpm) is required to enter first semester Fordirect entry into semester 2, please refer to the requirements stated in the curriculum. For further information contact the Program Coordinator.

Job Opportunities

Graduates may look for a rewarding career in government, private industry, business or the professions.

Graduation Requirements

Keyboarding: 60 gwpm (50 wpmminimum) (within 3 errors) Shorthand – 100 wpm minimum An overall average of 60% in final year (minimum requirement lo graduate).

Curriculum	Anoral Countries Burniocourte	
Semester 1	A Description of the second se	
in an anna an	Requirements: Keyboarding: 40 gwpm (30 nwpm minimum) Shorthand: Nil	OFFICE ADMINISTRATION and
- 180 - 124	Simulated Office Environment 1	WORD PROCESSING
dian in the	Notetaking for Business	PROGRAMS
and to unst	Elements of Accounting	
	Introductory Communications	
Semester 2	- Cargoring Landaumentality and he will	
a survey and	Requirements for Direct Entry: Keyboarding 50 gwpm (40 nwpm minimum) (within 4 errors) Shorthand: 60 wpm minimum.	
in the second second	Executive Office Simulations	
and a delig	Exec. Shorthand 1	
- 40°	Word Processing and Concepts 1	
1.01.01.75	Communications 1	
 Loug const 	General Studies	
Semester 3	A CONTRACTOR OF	
	Requirements: Keyboarding 50 gwpm (40 nwpm minimum) (within 3 errors) Shorthand: 80 wpm minimum	
	Exec. Office Procedures 2	
1.1	Exec. Machine Transcription 2	
	Exec. Shorthand 2	
A CONTRACTOR	D.P. Office Systems	
	Communications 2	
	2 General Studies	
Semester 4		
	Requirements: Keyboarding 55 gwpm (45 nwpm minimum) (within 3 errors) Shorthand: 90 wpm minimum	
	Executive Simulations 3	
	Office Administration Procedures	
	Office Communications Networks 1	
	General Studies	



North Campus

Four semesters beginning September.

OFFICE ADMINISTRATION and WORD PROCESSING PROGRAMS

The objective of this program is to provide training in the specialized skills, procedures and knowledge required to function efficiently as a legal secretary in a law office or legal department of government or industry.

In addition to training in principles of law, the preparation and application of basic legal documents in the areas of real estate, civil litigation, corporate and estate, – the program includes word processing concepts and instruction on word processing equipment. Emphasis on English proficiency is reinforced by required communication courses; a selection of required general studies enhances the student's educational background.

Admission Requirements

- Ontario Secondary School Graduation Diploma or equivalent
- •grade 12 English
- minimum keyboarding speed of 30 nwpm (40 gwpm) is required to enter first semester
- For direct entry into Semester 2, please refer to the requirements stated in the curriculum. For further information contact the Program Coordinator.

Job Opportunities

Employment opportunities may be found in private law firms, and in business or government legal departments.

Graduation Requirements

Keyboarding: 60 gwpm (50 nwpm minimum) (within 3 errors). Shorthand: 100 wpm (minimum).

An overall average of 60% in final year (minimum requirement).

Semester 1	Provincements: Keyboarding 40 gwpm (30 pupp
	<i>Requirements:</i> Keyboarding 40 gwpm (30 nwpm minimum) Shorthand: Nil
102.0	Simulated Office Environment 1
Brith British	Notetaking for Business
	Elements of Accounting
	Introductory Communications
Semester 2	
	Requirements for direct entry: Keyboarding 50 gwp (within 4 errors) (minimum) Shorthand: 60 wpm (minimum)
and the second	Legal Secretarial Procedures 1
- Aleranda	Legal Shorthand 1
and the second second	Elements of Law 1
	Communications 1
- Jury Corte	General Studies
Semester 3	
	<i>Requirements:</i> Keyboarding 55 gwpm (within 3 em Shorthand: 80 wpm (minimum)
	Legal Secretarial Procedures 2
of a long sign	Legal Shorthand 2
an a	Word Processing and Concepts 1
40.00.12.7	Communications 2
	General Studies
Semester 4	
	Requirements: Keyboarding 55 gwpm (within 3 em Shorthand: 90 wpm (minimum)
	Legal Secretarial Procedures 3
	Legal Shorthand 3
	Office Communications Networks 1
	2 General Studies

Medical Secretary Diploma

Curriculum

Se

North Campus

Four semesters beginning September, and January.

The student will receive training in the specialized skills required for employment in doctors' offices, hospitals, medical labs, health departments, and government health agencies, etc. The student will also have experience performing simulated medical secretary functions, such as keeping patient records and accounts, scheduling appointments and handling insurance and compensation forms. A St. John Ambulance First Aid course is also part of the program.

In semester 4, students receive practical experience, one day per week in medical and related fields.

Admission Requirements

•Ontario Secondary School Graduation Diploma or equivalent •grade 12 English •minimum keyboarding speed of 30 nwpm (40 gwpm) is required to enter fimester

Job Opportunities

Upon graduation, the student may look for a career in hospitals, medical labs, health departments, government agencies or seek employment in doctors offices.

For direct entry into Semester 2 of a Diploma Program, please refer to the individual Executive, Legal or Medical Diploma Program curricula. For further information contact the Program Coordinator.

Graduation Requirements

Keyboarding: 60 gwpm (50 wpm minimum) (within 3 errors). Shorthand: NIL.

An overall average of 60% in final year (minimum requirement ¹⁰ graduate).

emester	1
	<i>Requirements:</i> Keyboarding 40 gwpm (30 nwpm minimum)
and the	Simulated Office Environment 1
100	Notetaking for Business
A TOTAL	Elements of Accounting
1	Introductory Communications
	Introductory Communications
	Requirements for direct entry: Keyboarding 50 gwpm (40 nwpm minimum) (within 4 errors) Shorthand: Nil

Semester 2	The second s
mer Alexand	Medical Science 1
1000	Medical Office Procedures
at inspected	Medical Machine Transcription 1
Part & gracked	Word Processing and Concepts 1
server standing	Communications 1
estant (does)	General Studies
	<i>Requirements:</i> Keyboarding 50 gwpm (40 nwpm minimum) (within 3 errors) Shorthand: Nil

Semester 3	talenter
6 6 N 1 1 1 1	Medical Science 2
a manual	Medical Office Procedures 2
No. of Contraction	Medical Machine Transcription 2
	Office Communications Networks 1
a la compa	Communications 2
and a state of	General Studies
	<i>Requirements:</i> Keyboarding 55 gwpm (45 nwpm minimum) (within 3 errors) Shorthand: Nil

Semester 4	a manage and a second	ا ارما جو ا
a call of	Medical Science 3	1
	Medical Administrative Procedures*	
I married the	Medical Machine Transcription 3	
	Canadian Business Methods	
Contraction of the	2 General Studies	
*Includes	First Aid (St. John	7

*Includes First Aid (St. John Ambulance) OFFICE ADMINISTRATION

WORD

PROCESSING

PROGRAMS

and

Office Systems Administration Program

North Campus

Six semesters beginning September and January.

ADMINISTRATION and WORD PROCESSING PROGRAMS

OFFICE

This program has been designed to train the student to be responsible to management for the intercommunication, and inter-action of a specific department within a large or complex organization, or to be an office administrator for a less structured company. The graduate will be a self-reliant individual, able to operate keyboarding functions, and be computer literate in basic computer functions. The graduate will also have a good knowledge of business math, and be competent in the area of accounting. Reports and statistical writing will be included in the course of study.

Admission Requirements

Ontario Secondary School Graduation Diploma or equivalent
grade 12 English and mathematics
minimum keyboarding speed of 30 nwpm (40 wpm) is required to enter first semester

Job Opportunities

There is a demand for graduates with solid training in high technology requirements within the office. Emphasis in this program is on the development of organizational and management skills.

Graduation Requirements

Keyboarding: 60 gwpm (50 nwpm minimum within 3 errors) and an overall average of 60% in final year (minimum requirement to graduate).

Curriculum	
de la	<i>Requirements:</i> Keyboarding 40 gwpm (30 nwpm) Shorthand: Nil
Semester 1	
1.460 5 6 74	Simulated Office Environment 1
a ser parta de la	Word Processing and Concepts 1
1.000	Elements of Accounting
	Introductory Communications
a Tompéone	General Studies
a (a coloradore) a (a coloradore)	<i>Requirements:</i> Keyboarding 50 gwpm (40 nwpm minimum) (within 4 errors)
Semester 2	
- Hard Start	Simulated Office Environment 2
A STATE OF STATE	D.P. Systems
n here	Office Communications Networks 1
21 - 1 - 1	Business Math
Contraction of the	Communications 1
	General Studies
	<i>Requirements:</i> Keyboarding 50 gwpm (40 nwpm minimum) (within 3 errors)
Semester 3	Laborator and the state
some of the off	Elements of Systems
	Office Communications Networks 2
stitute (state)	MathPac/AlphaSort
The Distance of the second	Personnel
and Second	Communications 2
ALLING	General Studies
	Requirements: Keyboarding 55 gwpm (45 nwpm minimum) (within 3 errors)
Semester 4	Line harmony
The state of the second	Office Administrative Procedures
and the second	Telecommunications 1
	Records and File Architecture
and the second second	Office Systems Management
A BALL BALL	Communications 3
CORP. S. CARRON	General Studies
The Constant	Requirements: Completion of subjects in previou

semesters (or permission of Program Coordinator)

and some prove of an internet of the

The second se

Semester 5	
	Elements Salary & Benefits Admin.
	Organizational Management 1
	Marketing 1
	Telecommunications 2
	Micro Economics
	Business elective
	Requirements: Completion of subjects in previous 5 semesters (or permission of Program Coordinator)
Semester 6	a survey bet well and the second state of the second state of the
-	Labour Relations
	Organizational Management 2
- Baller	Personnel Management & Development
	Management by Communication
-	Macro Economics

Business elective

OFFICE AOMINISTRATION and WORD PROCESSING PROGRAMS

Word Processing Supervisor Program

North Campus

Four semesters beginning September and January.

OFFICE ADMINISTRATION and WORO PROCESSING PROGRAMS

Word Processing has changed the role of the secretary. It has altered and increased the responsibilities of employees by demanding business procedures which will bring about greater office productivity.

This program enables the student to become proficient in the use of office equipment. The student will learn the need for a feasibility study which will include setting objectives and the selection of appropriate equipment.

Admission Requirements

- •Ontario Secondary School Graduation Diploma or equivalent
- •grade 12 English
- minimum keyboarding speed of 40 gwpm (30 nwpm) is required to enter the first semester. There is no direct entry to second semester.

Job Opportunities

The graduating student can choose one of several office careers. Initially, experience as a word processor or correspondence secretary will enable the graduate to become a valuable member of an information team. The student showing potential will find excellent opportunities for advancement.

Graduation Requirements

Keyboarding: 60 gwpm (50 nwpm minimum) (within 3 errors). An overall average of 60% in final year (minimum requirement to graduate).

iwpm mia-
) nwpm
mill
) nwpm

Requirements: Keyboarding 55 gwpm (45 nwpm minimum) (within 3 errors)

Semester 4	
	Office Administration Procedures
	Telecommunications 1
	Records & File Architecture
	Office Systems Management
	Communications 3
1	General Studies

General Studies

Business & Commerce

telesdale Campus

Curriculum

beginning any Monday

The Keelesdale campus of Aumber College offers students trested in pursuing Commercial bjects a unique opportunity. Subjects are offered in 12 week odules, 2 hours per day, 5 days ret week. (It is expected you will omplete the work in 12 weeks, though some students may require more time, others less). The approach allows you,

pending on your own commitgents to attend classes in the pening, in the afternoon, or all

The subjects are divided into 3 adways (Accounting, Secretarial ad General). It is possible to sect from any Pathway, although we subjects do have prerequi-

Admission Requirements

pplicants must be at least 19 years

wyears of Ontario Secondary Shool education (with credits in wh math and English) or the wivalent facement testing is available **General** Pathway

Office Procedures

Intro. to Business Computer Literacy Keyboarding

Elements of Financial Recording

Accounting Pathway

Automated Accounting

Accounting 2

way	
Word Processing	
Typing 2	a second
Dicta Typing	1. 1. 1. 16
	way Word Processing Typing 2 Dicta Typing



BUSINESS

PROGRAMS

SHORT









300

Health Sciences and Human Services





Contents

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Automatic and an and

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Ambulance and **Emergency Care**

North Campus

Three Semesters Starting September

You will learn more than how to safely transport the sick and injured in this program. You will acquire the knowledge, skills and competence to provide basic emergency care and reduce situational hazards to patients. The program consists of courses in theoretical and clinical aspects of emergency patient care, with supporting courses in biology and social sciences. In the third semester, you will get clinical experience in selected hospitals and ambulance services.

Graduates receive an Ambulance and Emergency Care certificate and are eligible for certification as an Emergency Medical Care Assistant in Ontario.

Admission Requirements

- Ontario Secondary School Graduation Diploma or equivalent
- Senior level biology and chemistry
- pre-admission questionnaire to be returned to us (deadline specified by Registrar)
- information-sharing session at the College (date given by Registrar)
- recommended age: 19 years minimum by end of December of first year at the College (required for provincial licensing)
- secondary school science comprehension questionnaire and English pretest
- health certificate
- •valid driver's license (class G)

		Credits
Semester 1	(26 hours/week)	
	Ambulance Maintenance. Operation & Safety	
all shall be	Ambulance Service 1	2
	Human Anatomy and Physiology, Intro.	4
	Community Health (under revision)	2
	Emergency Patient Care 1	7
	Emergency Patient Care Lab 1	1
A A A	Communications 1	4
	First Aid & Accident Prevention	Ι
	Human Relations	4
Semester 2	(26 hours/week)	
	Ambulance Service 2	3
	Emergency Patient Care 2	6
	Emergency Patient Care Lab 2	5
	Moral and Ethical Issues in Health	2
	Physical Education	2
	Psychology	3
	Rescue Procedures	2
7	Microbiology	1
	Emergency Patient Care Seminar	2
Semester 3	(40 hours/week for 6 weeks)	1
	Applications in Emergency Patient Care	15

Job Opportunities

The Ontario Ambulance Act requires the successful completion of this program before you can gain full-time employment in the ambulance system in Ontario.

You can work as technical assistants or as ambulance officers in ambulance services, in hospital emergency departments and in some health and medical centres that use ambulances.

Later you could advance to management positions in ambulance services, become a training officer (Ministry of Health) or a community college teacher, get into sales for emergency medical equipment companies, or write for emergency-oriented publications.

Additional Costs

•\$250 for uniforms and \$300 for books

Profile of a Good Student

- ·industrious, committed, self-dis plined, articulate
- comfortable in chemistry and biology
- relates well with peers and page · can work well alone but is flex.
- enough for team work

Child Care Worker Program

Lakeshore Campus

Six Semesters Beginning September

(also available on a part-time basis)

This program is for emotionally nature people who can easily form relationships and who are easer to grow both professionally and personally. The program prepares the student to work competently with disturbed children and adolescents (4 to 18 years old) and their families.

Disturbed children have behavoural and emotional difficulties that affect their ability to function aschool, at home or in their community. This may result in their involvement with Children's Aid Societies, special education or residential treatment centres, psychiatric hospitals, group homes, family service agencies and correctional services. It is in these places that Child Care Workas put their skills into practice.

Admission Requirements

Ontario Secondary School Diploma with 4 credits in grade 12 English minimum age of 18 years, because most employers select graduates who are least 21. Interview with faculty to assess personal suitability opproximately 80 hours of volunter experience with children (not baby-sitting) in a treatment

ci ancy, as summer camp counselbr, etc.

Job Opportunities

Graduates from our program have found employment in a number of different areas: including Children's Aid Society group homes, in residential and outpatient services of mental health facilities, in observation and detention facilities. We have been satisfied with the very high percentage of our students who

Curriculum	and the second se	
Semester 1	(24 hours/week)	Credits
State of the second	Human Growth & Development 1	4
	Behavioural Foundation 1	3
10000	Introduction to Professional Skills	2
Citier Sein	Theory & Practice of Therapeutic Activities 1	3
	Community Services	2
and the second	Communications	4
	General Studies (2)	6
Semester 2	(28 hours/week)	And the second second
	Integrative Seminar 1	2
	Human Growth & Development 2	4
	Behavioural Foundations 2	3
with a	Theory & Practice of Therapeutic Activities 2	3
Section 200	Communications	4
	Field Work	12
Semester 3	(27 hours/week)	
	Assessment, Planning & Recording	<u>;</u> 2
	Psychopathology of Childhood 1	3
	Family Dynamics 1	2
	Child Care Work Methodology 1	4
Provide State	Field Work 2	12
	Integrative Seminar 2	Part of the second
In cash of the local	Group Theory 1	2
Semester 4	(27 hours/week)	
ALC: NO.	Family Dynamics 2	2
1000	Child Care Work Methodology 2	4
	Integrative Seminar 3	1
Course and	Field Work 3	12
	Group Theory 2	2
	Psychopathology of Childhood 2	3
10000	General Studies	3
Semester 5	(27 hours/week)	the second state
	Integrative Seminar 4	1
	Field Work 4	18
	Interviewing & Counselling Skills 1	2
	Treatment Philosophies 1	2
	Family Intervention 1	2
	Community Intervention	2

HUMAN SERVICES



are hired in their field after graduation. Many of our graduates move into supervisory positions after two or three years. Others develop their skills so that they can effectively work with families, groups or as consultants to teachers.

From the second semester till the end of this program, you will complete 1472 hours of field placement. You should budget travel expenses for these placements which will be in Metro Toronto. Supplies will cost you close to \$300.00 per semester.

Semester 6	(28 hours/week)	-
	Integrative Seminar 5	1
	Field Work 5	18
	Interviewing & Counselling Skills 2	2 2
	Treatment Philosophies 2	2
	Family Intervention 2	2
	Human Sexuality	3

Community Worker Program

Lakeshore Campus

Four semesters beginning September (also available on a part-time basis)

Are you interested in helping people to help themselves?

Community Development is the process by which people in various communities organize themselves to identify and obtain satisfaction of their special needs. A Community Worker assists communities in this process, for example by bringing together single parents in a low-income area to set up an activity centre for themselves and their preschool children, or by helping immigrant families gain full access to social, community and educational services.

The two-year Community Worker Program will provide you with the knowledge and skills necessary to be a competent community worker and offers the opportunity to acquire experience in community settings. You will learn how to organize and lead groups, how to identify and train community leaders, and how to problem-solve in groups.

You will be encouraged to develop self-confidence, assertiveness and awareness of people from different social and ethnic backgrounds. You will improve your speaking, written and media communications skills.

Admission Requirements

- •Ontario Secondary School Gran tion Diploma (with grade 12 English)
- mature people who can demote strate that they function at least grade 12 level

HUMAN SERVICES

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Job Opportunities

Our graduates have found that beir field placements have given and valuable experience and rovided them with contacts in the ed. Jobs exist in the outreach rograms of both government and on-government social and community services, with communityronsored housing developments, and immigrant aid organizaions, community information antres, home support services for icelderly, self-help organizations sthe handicapped, youth work rojects, store-front legal clinics, romen's services, special governant-funded projects in the mmunity, as well as in a variety Jother related community set-MES.

A community worker needs attaitive and the ability to work ad act independently both to find ad develop jobs in the community, swellas to do the job itself. Working to help communities help tenselves can be a demanding pb-but not just a job – it can also teprsonally satisfying and swarding. Because you will often work for small non-profit organizators, you should not expect high staries.

The single most important imment of the community worker form is field placement. For shours a week in the 2nd, what 4th semesters, you will both in the community with Wariety of agencies and commuiny organizations.

These field experiences will be saluated by staff and by field exervisors so that you will come as effective as possible in sumunity settings over the to years of the program. In each tracster, an integrative seminar avides the opportunity to inteface course work with actual therefore in the field. By sharing analyzing these experiences whoher students and program of you will acquire the knowlse and skills to be an effective commity worker.

Semester 1	(22 hours/week)	Credits
ALL TILL	Lifespan Development	3
for 2 may	Psychology: Understanding Humar Behaviour	1 3
	Urban Sociology	3
Las ertes	Introduction to Human Service Methods	3
port in the	Interpersonal Skills	3
C. growerts	Human Services Seminar	3
	Communications	4
Semester 2	(27 hours/week)	Section 2
a production	The Political Process	3
2 Justice The	Community Work Practice	3
E. Alant Par	Integrative Seminar (CW)	10
	Field Training	14
	Counselling & Group Work Skills	3
	General Studies	3
Semester 3	(28 hours/week)	
	Politics of Social Services	3
	Research Techniques	3
	Field Training 3	14
4.5	Integrative Seminar 3 (CW)	1
1000	Communications	4
100 B. B.	General Studies	3
Semester 4	(25 hours/week)	1.1
	Planning & Eval. Methods	3
	Community Development	3
	Community Law (CW)	2
	Field Training 4	14
	Integrative Seminar 4 (CW)	1
deal lines	Job Search Module	1
	Agency Administration Methods	1





HUMAN SERVICES

Developmental Services Worker (Mental Retardation Counsellor)

Lakeshore Campus

Four semesters beginning September

(also available on a part-time basis)

This program will train you to work with developmentally handicapped people of all ages and functioning levels. You will go through a four-week supervised orientation during the first semester. The two following semesters will give you field work experience in several disciplines and developmental remedial programs in the Metro Toronto community. Your fourth-semester internship will be in community settings and the larger mental retardation facilities. Over the two years of this program you will learn how to access community resource systems and facilitate personal development on an individual or group basis.

Admission Requirements

- •Ontario Secondary School Graduation Diploma (with grade 12 English)
- •good health as certified by a physician (OHIP personal or family coverage is essential)
- birth certificate
- •pre-admission interview
- working experience with the developmentally handicapped

Job Opportunities

Upon graduation you can work in protective services, family care, group home and apartment residential care, in counselling within a provincial facility, in Adult and Educational Training Centres, on projects involving children, young adults and mature people. Some jobs may involve shift work. With a few years of experience you will become supervisor or even director depending on the size of the organization which employs you. In some positions, you may have to take on training responsibilities.

Curriculum		Credits
Semester 1	(24 hours/week)	
	Human Growth & Development 1	3
	Behavior Pathology 1	
	Intro to Mental Retardation 1	3
	First Aid	1
	Field Practice 1	3
	Individual Program Planning	2
	Environmental Studies 1	3
	Communications 1	4
	Applied Methods 1	2
Semester 2	(27 hours/week)	
	Human Growth & Dev. 2	3
	Field Practice 2	6
	Intro to Mental Retardation 2	3
	Counselling Tech. 1 (MRC)	2
	Child Abuse M.R.C.	1
	Behaviour Pathology 2	3
	Functional Exceptionalities	2
	Communications 2	4
	General Studies	3
Semester 3	(25 hours/week)	
	Field Practice 3	6
	Applied Methods 2	2
	Environmental Studies 2	4
	Counselling Tech. 2 (MRC)	3
- 6 - 6 - 1	Sexuality & The Mentally Handicapped	2
	Special Needs in Mental Retardatio	n 3
	Behaviour Management	3
	Sign Language for Mental Retardation	1
	Preventive Health in M.R.	1

sector 4	(Internship 5 mos. 40 hrs/week)		
	NOTE: During this internship the student will do one of the followin	g:	
	a) Rotate every 4 weeks through modular units, or	-	
	b) Follow DACUM approach with rotation based on age and function level.	al	
The second	Modules:	Carlo and	
	Residential Unit:	5	
in the second	Developmental Education	5	
	Multi-Handicapped Module	5	
	Family Care Module	5	
	Vocational-Rehabilitation Mod.	5	

A successful graduate has a keen interest in the multiple facets of development of a person. Rather than being dismayed at any delay or deficiency found, the graduate would see an opportunity to assess and prioritize the needs and assist the individual to develop toward a productive, fulfilling and independent lifestyle with the given potential each person possesses.

Additional Costs

Textbooks for the program will cost \$200 to \$300 and you will need a video tape cassette. Living and travel expenses during field placement should also be included in your budget.

HUMAN SERVICES

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Early Childhood Education

North Campus

Four Semesters Starting September

The Early Childhood Education Program provides students with the knowledge and techniques/ skills necessary for working with the preschool child. Emphasis is placed on total child development and the guidance of the child toward becoming self-reliant and emotionally stable. By learning how to provide a warm, nurturing yet stimulating environment, graduates should be able to foster mental health, growth and development in each child. Communication skills and inter-personal relationships between children, parents and adults in general are an essential focus in this program.

Current population problems, such as public housing, high rise urban and suburban developments, and growing economic needs have increased public awareness of the importance of the early childhood years in establishing good social, emotional and play patterns.

We are currently witnessing major change in services for children with special needs. Infant services and regular day care programs are beginning to accept that all children, to an extent, have special needs. Exposure to all children is a focus for this program.

During the first two semesters, students will have field placements with children in day care centres and nursery schools, and block placements in the Humber Day Care and the Humber Child Developmental Centre. In the third and fourth semesters, field placement will be either a specialized setting for preschool children, a junior or senior kindergarten and/ or day care. The block placements in the lab/demonstration schools at Humber College will be repeated.

Curriculum		Cardita
Semester 1	(27 hours/week)	Credits
	Teaching the Young Child I	4
	Creative Activities Workshop I	3
	Child Observation	2
	Field Practice 1	6
	Integrative Seminar 1	1
	Nutrition & Health	Ι
	The Child with Special Needs 1	2
	Psychology of Infancy & Early Childhood 1	4
	Communications 1	4
Semester 2	(28 hours/week)	
	Teaching the Young Child 2	4
	Creative Activities Workshop 2	3
	Field Practice 2	6
	Integrative Seminar 2	1
	The Abused Child	1
	The Child with Special Needs 2	2
	Psychology of Infancy & Early Childhood 2	4
	Communications 2	4
	General Studies	3
Semester 3	(27 hours/week)	
	Psychology Later Childhood 1	3
	Community Resources 1	2
	Field Practice 3	10
	Integrative Seminar 3	1
	Child in the Family	3
	The Child with Special Needs 3	2
	Individual Program Planning	1
	Elective	3
	Extended Care Programming	2
	0	2

HEAIJH SCIENCES

emester 4	(26 hours/week)	
	Psychology Later Childhood 2	3
	Administrative Procedures	2
	Field Practice 4	10
	Integrative Seminar 4	1
	Parent-Teacher Relationships	3
	Comparative Studies in Early Childhood	2
	The Child with Special Needs 4	2
	General Studies	3

Admission Requirements

Ontanio Secondary School Graduaton Diploma

azional health review and immutration record, certified by a palified physician. No chronic initations that would prevent fective supervision of children. Inten proof of experience with reschool children in a structured ating (day care, nursery school, arent co-op). Age range should be inth to 6 years. Experience does at include babysitting and the Dhours minimum should be comled prior to February 15th and a recent in nature.

Admission testing Admission questionnaire Admission orientation session acceptance into the program, adents will be required to comkeon their own accord a basic adardized first aid certificate and basic cardiopulmonary resuscitathe course (Heart Saver level). In must be completed prior admittance in the program. Docantation must be submitted.

Interests and Skills

realistic attitude and an understanding of frustrations involved
awareness of own identity and

- strengths •outside interests and activities
- personal flexibility, emotional
- maturity and stability
- good communication skills

Job Opportunities

After graduation, students may complete two years of practical training at a recognized preschool nursery and qualify for certification by the Association for Early Childhood Education.

Graduates work in day nurseries, day care centres, nursery schools, community housing facilities, hospitals and some treatment centres for young children with special needs. The Early Childhood Education program is gaining increased recognition in a variety of agencies and institutions.

With the growth of day care in the province, graduates who have started as classroom teachers have been able to become supervisors or owners of their own centres.

AND DESCRIPTION OF ADDRESS

"currentertaria falia ana field di camoni sulli ini ini fan di camoni sulli ini ini ta cata a anabi etaling ciritari a anabi etaling

Augustone internantio no sta Interneticiani deserviciani gines er desir meni deserviciani er energisen wentig deservicia

Expected Workload

The workload is very heavy and you can expect a minimum thirty (30) assignments per semester. The overall field work hours are approximately one thousand. To succeed in this program, students must be able to speak/write fluently.

HEAIJH Sciences



Additional Costs

- Textbooks \$275/year
- •Travel to field placements \$100/ year
- Expendable supplies \$150/year

Early Childhood Education For the Developmentally Handicapped

North Campus

Four semesters, plus one field placement split into two May/June block experiences (six weeks each) starting September

In this program you will learn the techniques and skills needed to provide an educational program for people with developmental special needs, from birth to early adult years. Major emphasis is placed on younger persons with developmental special needs in educational programs (birth to 10 years of age). As infant services, regular day care and nursery school programs are beginning to accept that all children, with or without developmental problems, have special needs; exposure to a wide range of children is a focus for this program.

During the first two semesters, students will have field placements with non-handicapped children in day care centres and nursery schools. Students are also expected to take on a volunteer placement with children with developmental special needs, in addition to block placements in the Humber Day Care and Humber Child Development Centre. In the third and fourth semesters, field placement will be in nursery schools for specific types of handicapping conditions and developmental classes in the school system. Some students may be placed in specialized settings such as Infant Stimulation Projects, Adult Developmental Programs or agencies serving specific handicapping conditions.

The 5th semester, or work semester, is broken down into May and June periods at the end of each year. The first period will be spent with children with developmental special needs in settings acceptable to the program coordinator and the Early Childhood Education Certification Board. The second period will be spent with

Curriculum		
Semester 1	(30 hours/week)	Credits
Jemester 1	Teaching the Young Child I	4
	Creative Activites Workshop 1	3
	Child Observation	2
	Field Work 1	6
	Integrative Seminar 1	1
	Nutrition & Health	1
	The Child with Special Needs 1	2
	Seminar on the Child with Special Needs 1	1
	Elements of Human Behaviour 1	3
	Human Growth & Development 1	3
	Communications 1	4
Semester 2	(30 hours/week)	-
	Teaching the Young Child 2	4
	Creative Activities Workshop 2	3
	Field Work 2	6
	Integrative Seminar 2	I
	The Abused Child	1
	The Child with Special Needs 2	2
	Seminar on the Child with Special Needs 2	1
	Human Growth & Development 2	3
	Normalization within the Community	2
and the second	Communications 2	4
	Elements of Human Behaviour 2	3
Semester 3	(22 hours/week)	The age
A REAL PROPERTY.	Developmental Activities 1	2 11
Printing and a	Program Planning and Administra- tion 1	3
- New York	Field Work 3	6
	Integrative Seminar 3	1
	Teacher-Parent Involvement	3
	The Child with Special Needs 3	2
S. No. 4	Seminar on the Child with Special Needs 3	2
Section 21	General Studies	3

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Semester 4	(26 hours/week)	Credits
	Developmental Activities 2	2
	Program Planning and Administra- tion 2	4
	Field Work 4	6
	Integrative Seminar 4	1
1.1.	Curriculum Planning Resources	3
	The Child with Special Needs 4	2
	Seminar on the Child with Special Needs 4	2
	General Studies	3
	Family Dynamics	3
emester 5	(24 hours/week)	The second
Sec. 1	Field Work 5	24

m-handicapped children in ettings acceptable to the program wordinator. Students will not to paid for these two six-week priods, and will be charged a fee roover supervision.

Admission Requirements

Ontario Secondary School Graduaion Diploma

personal health review and immutration record as certified by a alified physician. No chronic mitations that would prevent sective supervision of children witten proof of experience in suctured setting with children the have developmental special teds. Age range should be birth to ¹⁰ years, preferably with preschool didren. Further exposure to reschool children who do not have and icapping condition in a day ursenes setting is an additional eset. Experience does not include bysitting, should be educational focus; the 80 hours minimum hould be completed prior to tomary 15th and be recent in sture.

re-admission testing re-admission questionnaire re-admission orientation session ron acceptance into the program, addents will be required to combee on their own accord a basic standardized first aid certificate and a basic cardiopulmonary resuscitation course (Heart Saver level). This must be completed prior to admittance in the program. Documentation must be submitted.

Interests and Skills

- realistic attitude and an understanding of the frustrations involved
- outside interests and activities
 awareness of own identity and strengths

•emotional maturity and stability •good communication skills

Job Opportunities

After graduation, students may complete two years of practical training at a recognized preschool and qualify for certification by the Association for Early Childhood Education. Students graduating from this program will be equipped to work in day nurseries, day care centres, nursery schools, community housing facilities, hospitals and treatment centres for young children with special needs. With some experience, graduates have become supervisors, infant stimulation project workers, have started their own business in age-appropriate equipment and toys, and may qualify as Resource Teachers in integrated

day nurseries as defined in the proposed Standards and Guidelines for staff qualification in the Day Nurseries Act.

Expected Workload

The workload is very heavy and you can expect a minimum of thirty (30) assignments per semester. The overall field work hours are approximately twelve hundred. To succeed in this program, students must be able to speak/ write English fluently.

Additional Costs

- Textbooks \$300/year • Travel to field placements \$150/
- year • Expendable supplies \$150/year
- Field work semester fee \$59/year





Funeral Service Education

North Campus

Four semesters starting September

In this program you will encounter every aspect, both practical and theoretical, of funeral service. As part of the Health Sciences Division, the program stresses the important therapeutic function which the funeral service has for the living. Behavioural science courses are designed to help you meet the needs of those who are to be served in a funeral service. A business management course has been included so that you will gain a more acute understanding of the inherent problems that exist in the operation of any business. You will accumulate the necessary practical experience through use of the Humber College facilities and cooperating funeral homes.

If you are considering this program, you should have a strong desire to be helpful to people and the basic compassion and tolerance to carry out this desire with people of all socio-cultural backgrounds. You should also have the potential for excellent communications skills.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- pre-admission interview and testing •health certificate (health history
- and Physician's statement of health)
- applicant must be eligible for a Class G Driver's Licence
- applicant must provide proof of a minimum of 30 hours observation or work experience in a funeral home

Job Opportunities

In your work you will have to assist clients in coping with grief, arrange and coordinate whatever social and/or religious practices they desire, and aid them in various legal, social, and emotional problems.

Curriculum	the second s	0
Semester 1	(26 hours/week)	Credits
	Human Anatomy and Physiology, Intro	4
1	Community Health	2
	Embalming Lab 1	2
	Embalming Theory 1	3
	Communications for Health Sciences	4
	First Aid & Accident Prevention	1
	General Studies	3
	Microbiology	1
	Moral & Ethical Issues In Health	2
	Orientation to Funeral Service 1	4
Semester 2	(27 hours/week)	
	Cell Physiology	1
UNCLESS.	Embalming Lab 2	2
parent Logi	Embalming Theory 2	4
Collision of	Keyboarding	2
	Orientation to Funeral Service 2	4
	Pathology	3
Incolution	Psychology of Grief	4
and the second second	Restorative Art	3
	Small Business Mgmt.	4
Semester 3	The subscription of the subscription	in Lini
	Theoretical Applications 1 (Correspondence Course)	4
Semester 4		
Street St	Theoretical Applications 2 (Correspondence Course)	4
Spring Session	Real Property in the second	
alles hus the	Theoretical Applications 3 (On	3

You will also have to care for the deceased, guard against the spread of disease and work with a variety of human service professions. Therefore you must become skilled in embalming and restoration and familiar with all relevant statutes.

Campus)

Although Humber College^w help by arranging interviews. you will have to find employme for the third and fourth semeser To be licensed in Ontario, this fourth semesters field placement must be in Ontario.

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HEALTH

SCIENCES

Hear 1 at North Campus, Year Int Osler Campus

Refull semesters and two gring sessions

within 24 months)

The nursing program at Humber entres the motivated student to epclients and their families well, adapt to conditions of sand cope with the dying mess. Through specific courses the humanities, students acquire nowledge about the individual, family and community, exammg the influences on behaviour mugh lifestyle, growth and relopment. Throughout the proand, the legal and moral issues sountered in nursing practice are scussed. The problem-solving tils of the nursing process rdeveloped in the clinical set-(Paediatrics, Obstetrics, Medicine, Surgery, Psychiatry, habilitation) under the superviion of the clinical instructor milthe student demonstrates consence in nursing judgement and kision-making. Upon successful mpletion of the Program, edents are eligible to write the legistration Examinations through r College of Nurses of Ontario.

Idmission Requirements

Mario Secondary School Graduaon Diploma or equivalent with wodifferent senior level sciences 160%, i.e., Grade 11 or 12 kiences (chemistry, physics or bology in grades 11, 12 or 13) and 10% average in all academic bijects taken in the last year of ady

Thature applicant status (19 years and at the time of enrolment) readmission testing (fee \$20) readmission questionnaire Personal health review by a physi-

ardiopulmonary resuscitation artificate (CPR), first aid certifi-

Curriculum

Curriculum	Charles and a state of the second of		PARTICULA
Semester 1	(29 hours/week)	Credits	See. 1
	Microbiology (Nursing)	1	in pident
A Street Providence	Assessment of the Well Individual	6	in the start
State State State	Basic Nursing Practice	8	
Self Lat	Developmental Psychology	3	TRATERIT
The Party of	Introductory Sociology	3	
L'erine	Communications for Health Sciences	4	de mar h
Instant	Basic Anatomy and Physiology (Nursing)	4	the artiges
Semester 2	(29 hours/week)	ar hade	Dirol I
in the state	Introduction to Adaptation Nursing	8	
som no pan	The Nurse as Practitioner 1	14	
the states	Physiological Adaptation and Maladaptation I	4	
A State Barrier	General Studies	3	and the second
and the Parties	Summer Session 1 (26 hours/week for 8 weeks)		annt -
and strength of	Adaptation Nursing 2	5	
1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	The Nurse as Practitioner 2	7	
	Physiological Adaptation and Maladaptation 2	2	
Semester 3	(25 hours/week)	1	plande.
1.0.0	Adaptation Nursing 3	6	100
	The Nurse as Practitioner	14	an the
	Physiological Adaptation and Maladaptation 3	2	
-	General Studies	3	
Semester 4	(26 hours/week)	11.19	9.000
Semester	Adaptation Nursing 4	6	
	The Nurse as Practitioner 4	18	
	Physiological Adaptation and Maladaptation 4	2	
	Summer Session 2 (27 hours/week for 8 weeks)		
	Leadership in Nursing	3	
	The Nurse as Leader	11	
Semester 5	(37.5 hours/week)		
Semester 5	Pregraduate theory	2	51
1	Pregraduate Experience	35	- jui

HEALTH



• In-coming Registered Nursing Assistants must show proof of current registration with the College of Nurses of Ontario in order to be eligible for exemptions in some nursing courses of the first semester.

Interests and Skills

• The candidate should enjoy meeting and working with people of all ages should be in good physical and mental health. Volunteer experience in hospitals can be helpful in adjusting to the hospital setting. Ability to problem solve and good reading and writing skills are an asset.

Job Opportunities

HEALTH

SCIENCES

Graduates will be eligible to write the Registered Nurse's Examination of Ontario offered through the College of Nurses. Positions exist with acute and chronic-care hospitals, voluntary community health agencies, homes for the elderly, industry and doctor's offices.

Additional Costs

• The following expenses are in addition to tuition fees. The cost of textbooks is approximately \$450. Students are required to purchase Humber College uniforms, shoes, stockings, caps, etc.: the total cost is approximately \$100-\$130.

Field Placement

All major acute and chronic care agencies, primarily in the cities of York and Etobicoke.

Residence Accommodation

Accommodation for female students who may elect to live in residence for part or all of their program is available at the Osler Campus, (5 Queenslea Avenue, Weston, Ontario). Since there are only a limited number of spaces, application for residence should be as early as possible. Further information is available upon request. (Telephone (416) 249-8301).

Profile of a Good Student

A successful student maintains a 60% minimum average. An ability to research information independently combined with good problem-solving skills are definite assets. A genuine interest in nursing as a career coupled with realistic personal expectations facilitate the socialization process into the profession. An ability to interact with people of all ages enables the student to establish the expected therapeutic relation ship with clients in the clinical setting.

Nursing Assistant

Worth Campus

wo semesters and six weeks the spring

The role of the Nursing Assistis to be an integral part of nursing team, working mainly the bedside with patients in longmand acute-care settings. smever, there are opportunities the Nursing Assistant to te a leadership role in nursing mes. Our thirty-six week course ares a common first semester the nursing students, preparthem in the basic skills of sing practice. Emphasis roughout the program is placed increasing competence in theory and practice of nursing. inical experience is obtained both acute and long-term resettings. Supporting courses the biological and human inces are also taken.

Idmission Requirements

mano Secondary School ploma or equivalent or mature plicant status *m*-admission questionnaire radmission testing (Fee \$20) rischal health record R certificate (cardiopulmonary suscitation) aid certificate

merests and Skills

The candidate should enjoy setting and working with people all ages and should be in good sical and mental health. Voluner experience in hospitals can thelpful in adjusting to the ospital setting. Ability to problem weand good reading and writing illsare an asset.

hob Opportunities

Graduates are eligible to write Nursing Assistant Registration tamination through the College Nurses of Ontario. Employment portunities include acute and amic-care hospitals, nursing

Semester 1	(20)	the second
	(29 hours/week)	Credits
Samp pres	Basic Anatomy and Physiology (Nursing)	4
	Microbiology (Nursing)	1
	Developmental Psychology	3
	Introductory Sociology	3
-	Communications for Health Sciences	4
and the second	Assessment of the Well Individual	6
	Basic Nursing Practice	8
Semester 2	(30 hours/week)	ne - preserver
	Adaptation Nursing (N.A.)	7
	The Nursing Assistant as Practitioner	21
	Legal and Professional Issues in Nursing (N.A.)	1
	Ethical Issues in Health Care	1
	Summer Session (37.5 hours/week for 6 weeks)	Sola Martin
	Pre-graduate experience (N.A.)	12
		the state of the s

homes, community health agencies and doctor's offices.

Additional Costs

 The following expenses are in addition to tuition fees. The cost of textbooks is approximately \$300. Students are required to purchase Humber College uniforms. The total expenditure for uniforms, shoes, stockings, caps, etc. is approximately \$100-\$300.

Field Placement

All major acute and chronic-care agencies, primarily in the cities of York, North York and Etobicoke.

Residence Accommodation

Accommodation for female students for part or all of their program is available at the Osler Campus (5 Queenslea Avenue, Weston, Ontario). Since there are only a limited number of spaces, application for residence should be as early as possible. Further information is available upon request. (Telephone (416) 249-8301).

Profile of a Good Student

A successful student in the Nursing Assistant Program maintains grades above 60% in each subject throughout the program. An above-average student does extra reading in content areas and does preparatory reading prior to classes. This student has a good ability to solve problems and uses this in the clinical setting applying classroom knowledge to practice.

A keen interest in people is evident in the student's ability to develop positive relationships with classmates, teachers and patients.

HEALTH

SCIENCES

North Campus

Two semesters starting September

The Health Sciences Division has developed this program in cooperation with the Ontario College of Pharmacists, to train technical personnel to assist registered pharmacists in both community and hospital practice in the province of Ontario.

In addition to purely vocational subjects, you will develop skills in communications and business methods such as retailing and typing. In a five-week period, you will gain on-the-job practical experience in a community and a hospital pharmacy.

Admission Requirements

- Ontario Secondary School Graduation Diploma with good grades in mathematics and chemistry, plus one other science at Grade 11 or 12 level
- pre-admission testing

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SCIENCES

- pre-admission interview & orientation to the program
- health certificate (health history and physician's statement of heath)

Interests and Skills

- strong sense of responsibility
- clear and effective communication with customers, patients and colleagues is important
- initiative within the limits of the job
- ability to work quickly without sacrificing accuracy and neatness

Curriculum	Construction of the second sec	
Semester 1	and a second second second second	Credits
	Business Elective	4
	Communications for Health Sciences	4
	Orientation to Pharmacy	4
Section Section	Community Pharmacy Prescriptions	s 4
	Pharmaceutical Calculations 1	1
	Pharmacy Science 1	4
-	Keyboarding (Intermediate)	4
Semester 2		11-4
12-1-1-1-1	Community Health	2
1.5.324	Introductory Human Physiology	4
and og at stand	Microbiology	1
	Pharmacy Science 2	5
	Aseptic Techniques	2
	Hospital Pharmacy Procedures	1
and and the	Hospital Pharmacy Dispensing	3
	Computer Prescription Records	2
	First Aid & Accident Prevention	1
	Hospital Pharmacy Work Experience	3
and the second second	Community Pharmacy Work Experience	2

Job Opportunities

Qualified pharmacy assistants work in community and hospital pharmacies or clinics. Duties may involve dispensing, pricing, inventory control, typing, records maintenance, some cash register work and operation of computer terminals. You should expect to work some shifts, or in the evenings. With some experience, job opportunities expand to pharmaceutical industry and sometimes research laboratories.

The state of the s

Rehabilitation Worker Program

ukeshore Campus

Four semesters beginning September, or January

[available on a part-time basis as well].

The field of rehabilitation needs fontline personnel to assist ocationally-handicapped adults mprove their physical, mental, social and professional condition. This program has been developed accoperation with professional rehabilitation personnel who work agencies and associations of the public and private sectors. The mogram structure supports the exegration of special needs persens into work opportunities suited otheir goals, functional level ad labour-market conditions.

Admission Requirements

Ontario Secondary School Graduain Diploma gade 12 English whity to work with people with pecial needs must be shown trough an employment or voluner work history wdorsement through letters of skrence from rehabilitation twiessionals is desirable.

Job Opportunities

Graduates work in the vocainal rehabilitation or employment avices systems, in residential avgram services, in special needs duction and in the insurance austry. We try to match your field accement to your entry-level applyment goal. In many cases, aduates have been hired where by did their field work.

In a career path study made in 183, two paths emerged among reduates who remained in the tabilitation field. Some graduates ended university either fullar or part-time to upgrade skills. These graduates then entered and administrative posiis in municipal and provincial memment and private agencies.

Curriculum	Contraction of the second	
Semester 1	(25 hours/week)	Credits
	Lifespan Development	3
1 and a starting of	Psychology I	3
and the second	Sociology 1	3
met and	Introductory Methods	3
42 Lander	Interpersonal Skills	3
and the second	Human Services Seminar	3
La state and a	Communications 1	4
And in the second	General Studies	3
Semester 2	(25 hours/week)	
Li andi	Programming (R.W.)	4
de la constance	Basic Work Skills I (R.W.)	2
A COLORADO	Structure & Function (R.W.)	5
	Field Practicum 1	7
	Communications 2	4
	Ergonomics I	3
Semester 3	(27 hours/week)	Distances All
	Assessment and Evaluation	3
and a state of	Field Work 2 (R.W.)	14
and the barre	Placement Services	3
	Application of Rehabilitation Process	4
1000 201	General Studies	3
Semester 4	(27 hours/week)	
	Ergonomics 2	3
	Administrative Management	3
	Field Work 4 (Rehab)	14
	Field Practicum 2	6

Other graduates obtained work rapidly and progressed through the ranks to positions as supervisors or coordinators of programs for residential or vocational services.

Additional Costs

• Text costs are approximately \$200 per semester. Supplies cost approximately \$75. Transportation costs may vary with field placements. Students will need clothing which is appropriate to field placement sites and to campus activities. Special trips or projects occur during the year which provide valuable learning experiences. Costs for the special activities vary but we estimate \$150 will meet these needs.

Field Placement

Various agencies throughout Metro Toronto provide learning opportunities for program students.

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HUMAN

SERVICES

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F.F.F.F



Lakeshore Campus

Four semesters beginning September

(part-time schedule available)

The program prepares you to assist individuals who are experiencing social problems because their basic needs have not been adequately satisfied. You learn about human behaviour and development and how circumstances can alter or stop satisfactory growth. You will acquire helping skills to help individuals obtain the resources they need or enable them to improve their coping and problem-solving abilities. Remedies may include financial aid, counselling and teaching life skills. Field work in a social service organization two days a week (semester two, three, four) provide an opportunity to practice skills and methods of helping through case management, group work or community outreach. Students may be involved in work with children or senior citizens, with the physically ill or disabled, with situations of financial need, emotional or mental health problems, or in the field of correctional services.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- •grade 12 English
- volunteer work experience with a social service organization (50 hours minimum)
- interview with faculty members

Interests and Skills

- capacity to develop self-awareness, maturity
- tolerance of individual and group differences
- strength under stress and ability to meet deadlines
- good communication skills, both written and oral

Curriculum		
Semester 1	(25 hours/week)	Credits
	Lifespan Development	3
1.7.82.54	Psychology 1	3
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Sociology 1	3
P IN THERE	Introductory Methods	3
	Interpersonal Skills	3
	Human Services Seminar	3
	Communications 1	4
C. Sector	General Studies	3
Semester 2	(25 hours/week)	all gang of the
1.10 1.19	Social Service Methods 1	4
	Human Growth & Behaviour	2
and a starter	Field Practice 1 (S.S.W.)	14
and the second second	Integrative Seminar 1	1
and the second	Communications 2	4
Semester 3	(24 hours/week)	and the second second
	Social Service Methods 2	4
	Administration & Organization	3
The second second	Field Practice 2 (SSW)	14
and the second second	Integrative Seminar 2	1
	Abnormal Psychology 1	2
Semester 4	(26 hours/week)	The second second
ALC: NO.	Social Services Methods 3	3
	Field Practice 3 (SWW)	14
	Integrative Sem. 3	1
West Hardwine		the second se
	Abnormal Psychology 2	and and a second
	Abnormal Psychology 2 Family Life Education 1	2

Job Opportunities

Graduates have found jobs in provincial and municipal social services, correctional services community work, services to the aged, mental health programs and residential settings.

Additional Costs

• Students should budget \$150.01 per semester for supplies and are responsible for transportane costs to their field placement (in Metro Toronto).

Advanced Studies in Early Childhood Education

North Campus

This post-diploma program what are the knowledge and skills sed with children. These courses re challenging and are taught w professionals with extensive uperience and special skills. Six nurses must be completed to than the certificate.

Mission Requirements

poloma in Early Childhood fucation or equivalent

terests and Skills

rough professional development rough professional development rungness to meet academic tallenge rativity and openness to new

and experiences

kb Opportunities

1

Prior to entry into this program, estudent must be qualified to ork in a preschool setting. She/he av be active in the field or may epursuing other activities while whering her/his professional relopment through these aures. A student who successilly completes this program av move into the position of estant supervisor or supervisor fapreschool centre.

Curriculum

The student needs to complete any 6 of the course offerings in order to receive the certificate.

April 20 and an and a	After-school programming for 6-10 year olds
n nibeini nobelen	Cognitive development: theory and practical applications in early childhood
ne sine of pie	Developmentally appropriate activities
t daw of shi i	Development of home programming
uise Jon blo	Effective supervision and communication
INSET	Infant-toddler programming
and the	Integration – community-based services
all in spin te	Language development in young children
and the of the second	Learning through movement
	Music and creative movement
	Parent-teacher relationships
	Techniques of individual programming

POST-DIPLOMA PROGRAMS

313

Early Childhood Education Resource Teacher Post Diploma Certificate

North Campus

Six 36-Hour Courses and three 105-hour field placements

This program is also offered on Saturdays.

Designed for graduates of an early childhood education program, the program will equip the educator with the theory and practical experience necessary to work with children who have special needs. The curriculum will focus on integration and on programming for individuals and groups. It includes demonstrations, discussions, lectures, reports, the use of resource materials and assignments.

POST-DIPLOMA PROGRAMS

Admission Requirements

- early childhood education diploma or equivalent
- one post diploma year of work with children in a group care setting
- 105 hours (minimum) with children who are developmentally delayed (as defined in the Day Nurseries Act)
- orientation session with program

Interests and Skills

- ability to work with children with special needs and their families in a sensitive, resourceful manner
- •on-going career commitment •leadership, initiative and understanding

Job Opportunities

After this program, graduates are qualified to work as resource teachers (as defined in the proposed Day Nurseries Act). You will work in day care settings where you can help each child and his/her family lead a more independent and productive life in the community.

Curriculum

Incoming students will have to review basic information selected for its relevance to the course content. The package is designed to apply the knowledge acquired in introductory courses to the material of higher-level courses.

> Introduction to resource teaching Individual developmental planning 1

Field Practicum I

Working with families

Individual developmental planning 2

Field practicum 2

Advocacy in the school and community

Coordinating resources

Field practicum 3

Courses must be taken in this order. The workload is heavy and will demand consistent high quality effort.

Gerontology

North Campus

This is a post-diploma certificate ogram specifically designed for messionals working in the ad of gerontology who wish to quire additional professional ining. The overall purpose of the ogram is to meet the learning eds of individuals working with elderly in institutions and community, in an effort to tance the quality of life of the adult. The program is offered apart-time basis during all semesters (fall, winter, spring, mer), one evening per week an occasional weekend lcan be completed in two years.

Mmission Requirements

which will be interviewed and type required to supply a set of reference for admission to program

rervision of clinical practice for students will be agreed upon ally by Humber College and the statution involved

Curriculum	*Constitution	
Compulsory:	tint we a milerie di forsatte	
Vero) e	The Aging Process	N. WITE AND SHORE FI
Relative of	Dynamics of Communication with the Elderly and their families	en Maren almaler
- DOM	Health Care for the Aged	a hope opposite the
and a decimient	The Elderly: Policies and Issues	A BULLY THE PROPERTY
DA. H. E.	Independent Research Project	and a state
Zinne a	Clinical/Field Experience	Summer hards to
and the second	Conferences/Workshops	and the property of the
A sub- only a	General Studies	

The second se		
Color Sea	Leadership Skills	-
ale for	Principles and Practices of Group Work	
	Principles and Methods of Motiva- tion and Reactivation	inter a
	Management Skills for Nurses	ntal
TOTAL STATE	Individual Field Experience	10)

POST-DIPLOMA PROGRAMS

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POST-DIPLOMA PROGRAMS

Human Sexuality: Counselling & Teaching Program

North Campus

This post-diploma multidisciplinary certificate program is specifically designed for, and restricted to, professionals (e.g. family physicians, social workers, psychologists, counsellors, teachers, nurses, clergy, and others engaged in teaching or counselling people in the area of human sexuality) who feel they require additional professional training.

The program is offered on a part-time basis during the fall and winter semesters with special workshops on some selected weekends. In addition to the regularly scheduled classes and workshops, there are field placements in local institutions, agencies and clinics, to broaden the professionals current range of educational, clinical, and teaching experiences.

Admission Requirements

- professional certification or the equivalent of professional experience is required
- interview and letters of references are required before entry into the program can be guaranteed

Curriculum

Students may only register for the entire program rather than one course at a time (only Medical-Biological Aspects of Sexuality can be taken for credit on an individual basis).

with some 5 of	Orientation to Human Sexuality
	Medical-Biological Aspects of Sexuality
and a second second	Sexual Attitudes and Values
	Psycho-Social Aspects of Sexuality
	Counselling in Family Planning & Sexuality
the fourthe	Teaching Family Planning & Sexual- ity
	Clinical/Field Experience Practicum

Life Threatening Illness, **Dying and Bereavement**

Multidisciplinary

This post-diploma certificate nogram for professionals who are mently employed in a related tuman service field requires kast one year of current working perience in a related field. The program is offered on a int-time basis during the fall, winmand spring semester. one atning per week plus an occamal weekend. The program can acompleted in one year and offers spervised practical experience.

Admission Requirements mlicant will be interviewed supply a letter of reference admission to the program

Curriculum

		-
	Death in Our Society	
	Life Threatening Illness	
1	Helping the Critically Ill and Their Families	
	Field Placement 1	
	Death, Grief and Bereavement	
	Helping the Bereaved	
	Field Placement 2	
		_

students employed in a clinical or institutional setting will be required to provide permission from the institution to engage in the practicum on site

 supervision of clinical practice for all students will be agreed upon jointly by Humber College and that institution. Clinical placements will be provided for all other students, limited to the availability of supervisors

POST-DIPLOMA PROGRAMS

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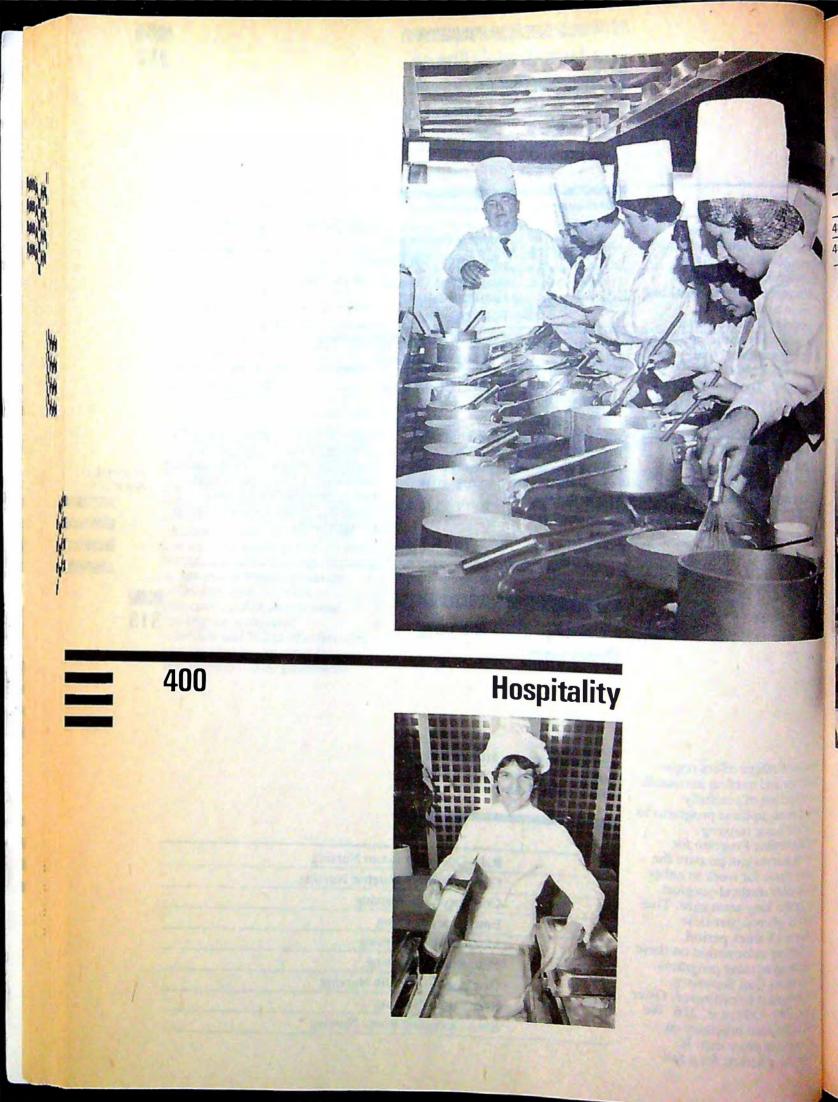
Post-Diploma Nursing Programs

Humber College offers registed nurses and nursing assistants inide selection of carefully signed post-diploma programs to to their basic training. Our Refresher Program for ensured nurses can prepare the Turning nurse for work in either * acute-care medical-surgical ing or the long-term care. This rogram is offered part-time as over a 13-week period. For further information on these M-diploma nursing programs, hase contact Gail Summers, vaior Program Coordinator, Osler impus, 249-8301, ext. 216. We Mish a detailed brochure on our nursing programs. It tudes the schedule for a full

a

Nine programs are available for nurses with at least one year of experience. These are:

	R.N. Operating Room Nursing
	Contemporary Obstetric Nursing
	Coronary Care Nursing
	Emergency Nursing
-	Mental Health Nursing
	Neurological Nursing
-	Occupational Health Nursing
-	Respiratory Nursing
	RNA Operating Room Nursing



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HOSPITALITY PROGRAMS



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Culinary Management (Chef de Partie) Diploma Program

North Campus

Four semesters beginning May, July, September and January

In this program you will receive basic and advanced theory and practical experience in professional food preparation and management control of food operations. Emphasis is placed on knowledge of foods, economy in food preparation, food sanitation and personal hygiene, control of quality and quantity of prepared food, portion control, planning and supervising food production enterprises, operational accounting, food and labour cost control, and production safety.

The aim of the Culinary Management Program is to prepare students who aspire to become cooks and chefs—who seek growth as Chefs de Partie, Sous Chefs and Chefs de Cuisine.

Admission Requirements

- •Ontario Secondary School Graduation Diploma or mature student status
- good health (medical certificate and chest x-ray)
- •orientation session at the College

Interests and Skills

- You must be interested in a serviceoriented career.
- You must have good human relations skills, be able to work in teams, have good health and stamina, be willing to work hard and long hours, and have a desire to serve people.
- You should possess good leadership talents.
- You must be prepared to accept rigid discipline, particularly as it relates to safety, sanitation and personal hygiene, and dress code in all classes.

Curriculum		
Semester 1	(31 hours/.week)	Credits
	Baking I	4
	Small Quantity Food 1	4
	Large Quantity Food 1	6
	Kitchen Management 1	3
A NUMBER OF	Food Theory 1	3
*	Hotel Butchery 1*	4
277-1-1	Communications 1	4
Section 24	General Studies	3
Semester 2	(27 hours/ week)	
	Baking 2	4
	Small Quantity Food 2	4
	Large Quantity Food 2	6
	Kitchen Management 2	3
	Food Theory 2	3
	Communications 2	4
	Language d'Hospitalite + +	3
Semester 3	(24 hours/ week)	THE LAND
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 19	Baking 3	4
	Food Prep. Buffet 1	5
	Adv. Intern. Cuisine 1	6
	Kitchen Management 3	3
	Food Theory 3	3
100 C 100	Hotel Butchery 2*	4
1000	General Studies	3

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HOSPITALITY PROGRAMS



Semester 4	(25 hours/week)	Credits
	Baking 4	4
	Food Prep. Buffet 2	5
	Adv. Intern. Cuisine 2	6
	Kitchen Management 4	3
	Food Theory 4	3
	General Studies	3

*Indicates that subject may be taken in either Semester 1 or 3 + +Indicates that subject is not a substitution for elective

Job Opportunities

As the industry expands the demand for well-trained, creative cooks and chefs, knowledgeable not only in the preparation of fine International, French and Canadian Cuisines, but also proficient in menu planning, purchasing, supervision of kitchen staff, increases.

When you graduate from the Culinary Management (Chef de Partie) program career opportunities abound for you in Toronto, Ontario, across the country, and abroad. In Ontario alone, the Hospitality Industry absorbs 16,000 new employees each year. And this number is increasing.

Profile of a Good Student

• Professional Recognition: a) Upon completion of two semesters (one academic year) of the Basic Culinary Training program you will have qualified for the incollege portion of the Ontario Provincial Apprenticeship program for cooks. b) Upon successful completion of the Culinary Management Diploma Program and two years (4000 industry hours), you will be qualified to write the Certificate of Qualification examinations set by the Ontario Ministry of Manpower for certification of Journeyman Cooks.

HOSPITALITY PROGRAMS

Hotel and Restaurant Management Diploma Program

North Campus

402

Four semesters beginning May, July, September and January

Diploma/Certificate study is available during evenings/ weekends.

In the Hotel and Restaurant Management Program you receive a balanced training in both theoretical and practical aspects of hospitality, preparing you for professional growth in your chosen career area. The program provides you with training in professional, managerial and hospitality business subjects; at the same time, attention is given to communications skills, Hospitality Law, marketing, personnel training, supervision of food and beverage operations, financial control and computer operations.

To obtain the necessary culinary skills, you will learn basic and advanced theory of foods, and receive extensive practical training in food preparation. This training embraces French, International and Canadian cuisines.

The Humber Room, a new, 100seat restaurant/classroom, provides you with hands-on experience in Dining room service, bar operations, and food and beverage Remanco computerized control.

The aim of the Hotel and Restaurant Management Program is to prepare men and women for junior management and supervisory positions within the industry, positions from which they can grow, specializing in such areas as hotel, restaurant, motel, club and resort management, catering and related segments of the industry.

Curriculum		
Semester 1	(25/27 hours/week)	Credit
	Hotel Front Office & Housekeeping Operation	4
	Intro. to Hospitality	3
	Practical Baking*	4
	Bar Management Theory*	2
	Mixology*	2
	Quantity Food Management - Theory 1	2
1. mar 200 (Quantity Food Management - Practical 1	4
	Hospitality Law*	4
	Food & Beverage Service Practical*	6
	Food & Beverage Service Theory*	2
	Basic Finance Operation*	4
	Communications 1	4
	Language d'Hospitalite + +	3
Semester 2	(25/27 Hours/week)	
	Practical Baking*	4
	Bar Management Theory*	2
	Mixology*	2
Conclusion and	Hospitality Law*	4
	Food & Beverage Service Practical*	
	Food & Beverage Theory*	2
	Basic Finance Operation*	4
	Quantity Food Management - Theory 2	2
1.19.	Quantity Food Management - Practical 2	4
	Communications 2	4
	General Studies	3
Semester 3	(25/27 hours/week)	-
-	International Gastronomy**	-
Real Property and	Food & Beverage Service Practical	3
		3
	Hospitality Marketing**	4
	Purchasing for Hospitality Industry	2
	tality Industry	3
	Advanced Finance Operation Hospitality Computer Operation s**	4
		T

HOSPITALITY

PROGRAMS

-	Security for the Hospitality Industry	14
	General Studies	3
Semesterr 4	(25/27 hours/week)	
	International Gastronomy**	3
	Food & Beverage Service Practical 2*	3
	Hospitality Marketing**	4
	Hospitality Computer Applications**	4
	Food, Beverage and Labour Cost Control	4
Carlo Carlo	Menu Planning	3
Same and	Personnel in the Hospitality Industry	y4
A LORD	General Studies (2)	6
1200	Advanced Language Subject	3
uken in either	hat subject may be Semester 1 or 2	1

teken in either Semester 1 or 2 indicates that subject may tetaken in either Semester 3 or 4 +Indicates that these subjects arenot substitutions for electives

Admission Requirements

Ontario Secondary School Graduaan Diploma or mature student salus

and health (include medical antificate and chest x-ray result) in mature students, an interview is aquired, for other students it is stongly recommended

Interests and Skills

- You must be interested in a serviceoriented career.
- You must like people, possess determination, be willing to work hard, have good health, have good human relations skills.
- You should possess good leadership talent.
- You must be prepared to accept rigid discipline, particularly as it relates to safety, sanitation and personal hygiene, and dress code in all classes.

Job Opportunities

When you graduate from the Hotel and Restaurant Management Program career opportunities abound for you in Toronto, Ontario, across the country, and abroad. In Ontario alone, the Hospitality Industry absorbs 16,000 new employees each year. And this number is increasing!

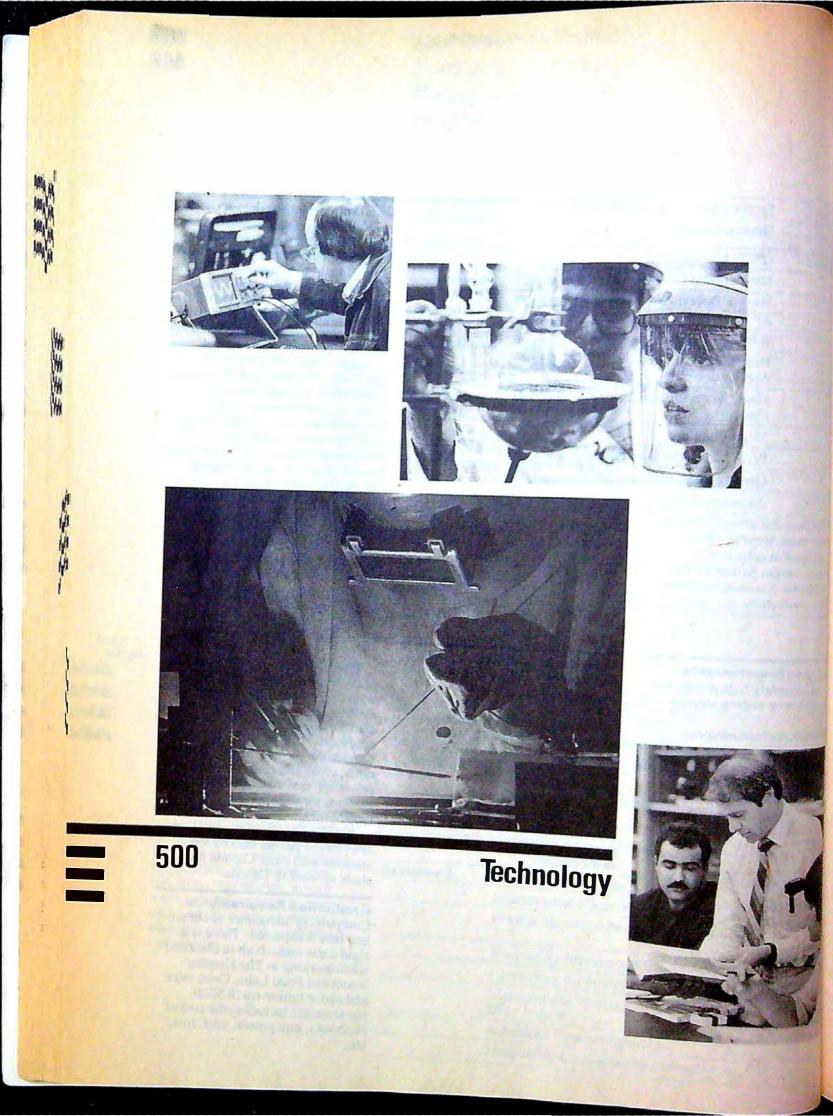
Here, at Humber College, the Career Planning and Placement Department can assist you in obtaining employment. This Department, along with the Hospitality Division, organizes oncampus interviews with representatives of major hotels, restaurants, chains, catering companies, clubs and resorts. In the past 17 years, our students have gained wide recognition from the Canadian Hospitality Industry for their dedication, knowledge and professional attitude. There is always a strong demand for graduates of Humber's Hotel and Restaurant Management Program—and we're proud of the fact!

Upon completion of the first two semesters of study, should you wish to get a head start in gaining experience, you will find that there are more opportunities than applicants. In Ontario and across Canada the resorts, hotels, restaurants, clubs and catering enterprises are seeking out Humber students for summer and full-time employment.

NOTE: Canada's immigration laws do not permit international students who enter Canada for study to work in Canada.

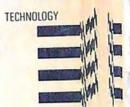
Graduation Requirements

• Compulsory attendance at classes and labs is expected. There is a rigid dress code, both in class and when working in The Humber Room and Food Labs. Costs over and above tuition reach \$220 per semester including the cost of textbooks, equipment, uniforms, etc.



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1	- technician	-
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-	Construction administration (mechanical) technologist	-
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	industrial programs	-
	industrial (management) engineering technologist	-
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	mechanical programs	-
	35 electromechanical engineering technician	
	26 electromechanical engineering technologist	
	2) manufacturing engineering technician	
-	28 manufacturing engineering technologist	
in l	mechanical engineering drafting design technician	
2	mechanical engineering tool & die technician	
	mechanical engineering numerical control technician	



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	marine technology programs
532	small craft & marine technology
	short programs
533	automatic machining setter operator
534	cabinet making
535	digital equipment and systems electronics certificate
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537	drafting refresher
538	industrial instrumentation mechanic
539	industrial maintenance mechanic (packaging), (millwright)
540	machine shop practice
541	marine and small powered equipment mechanic
542	mobile radio communications electronics certificate
543	numerical control machine programmer/operator
544	precision instrument mechanic
545	radio and tv receivers electronics certificate
546	skills update electronics certificate
547	welder fitter

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TECHNOLOGY

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Architectural Design Technician

North Campus

four semesters beginning september

Asan Architectural Design kchnician you would work under supervision of an Architect Architectural Technologist to nduce complete sets of working clude floor plans, sections, evations and details of a variety buildings complying with and national building codes. bu would also be able to specify equality of materials and workanship required for these buildes and report on the job progress their construction. Students my be required to put refundable posits on model shop equipment polied by the College.

Admission Requirements

Ontario Secondary School Graduation Diploma
grade 12 English, technical or academic mathematics
minimum of 2 credits in any combination of senior level science and program related senior level technical courses (drafting and physics at the senior level are strongly recommended)

Job Opportunities

As a graduate Architectural Technician you may find employment as an architectural draftsperson, building inspector, or as a sales representative for construction materials and equipment. As a graduate of this four-semester program you may also be eligible to enter into the fifth semester of Architectural Design Technology. Successful completion of fifth and sixth semesters will allow you to graduate as an Architectural Design Technologist.

Curriculum

See semesters 1, 2, 3 and 4 of the technologist training on 502.

BUILT ENVIRONMENT PROGRAMS

Architectural Design Technologist

North Campus

Six semesters beginning September

Architectural Technology is a six-semester program with the first four semesters the same as the Architectural Technician program. During the fifth and sixth semesters you will complete tasks which are more complex in nature and more demanding in accuracy. As a technologist you will be able to produce complete presentation drawings including interior and exterior perspectives, complete working drawings, as well as make detailed estimates and specifications of construction materials and report of job progress. As a technologist you will be able to produce a conceptual layout of a given subdivision showing the general location of streets, houses, schools, etc. Students may be required to put refundable deposits on model shop equipment supplied by the College.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- •grade 12 English, technical or academic mathematics
- minimum of 2 credits in any combination of senior level science and program related senior level technical courses (drafting and physics at the senior level are strongly recommended)

in order to continue into third year of the Architectural Technology program, students must meet the requirements for the Architectural Design Technician Diploma with a minimum grade point average of 75% (70% with permis-

ENVIRONMENT PROGRAMS

sion).

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Curriculum		0.11
Semester 1	(25 hours/week)	Credits
	Arch. Design Dftg. 1	4
	Arch. Detailing 1	2
	Arch. Graphics	3
	Mat. & Meth. of Const. 1	2
	Physics (Heat, Light, Sound)	3
	Communications 1	4
	General Studies	3
	Mathematics 1	3
11000	Building Codes & Regulations	1
Semester 2	(25 hours/week)	P. D.C.
and the second	Arch. Design Dftg. 2	4
	Arch. Detailing 2	2
	Mat. & Meth. of Const. 2	2
dented an	Statics (Arch.)	3
	Build. Environ. Syst. 1	2
	Introduction to Computing	2
	Communications 2	4
	General Studies	3
	Mathematics 2	3
emester 3	(25 hours/week)	
	Arch. Design Dftg. 3	4
	Arch. Detailing 3	4
	Rendering Techniques 1	2
	Structural Dftg.	2
	Surveying	3
	Strength of Materials 1	3
	Mat. & Meth. of Const. 3	3
The second second	Mathematics 3	2
	General Studies	3
mester 4		3
	(25 hours/week)	
	Arch. Design Dftg. 4	6
	Strength of Materials 2	3
	Modern Arch. History & Design 1	2
		3
	Electrical Ditg.	3
	Model Making 1	2
	Construction Mgmt. & Estim.	4
	Specification Writing	2

Semester 5	(25 hours/week)	Credits
Jui	Arch. Design Dftg. 5	8
-	Rendering Techniques 2	2
	Arch. & Economic Anal.	3
	Model Making 2	2
	Town Planning	2
	Build. Environ. Syst. 2	3
-	Intro. to Struc. Design	3
	Introduction to Inter. Des.	2
Semester 6	(25 hours/week)	Colorest Colorest
	Arch. Design Dftg. 6	8
	Arch. Conserv. & Restoration	3
	Modern Arch. History & Design 2	2
The second	Arch. CADD Studio	4
The second second	Development Law	2
TRUCK	Intro. to Landscape Architecture	2
1.00	Technical Report	1
THE MARK	Build. Environ. Syst. 3	3
and the second sec		

-

1 1

Job Opportunities

As an Architectural Technologist your career opportunities will cover such fields as job captain, draftsperson, coordinator, estimator, or a variety of related positions in the construction field.



Construction Administration (Architectural) Technologist*

North

Six semesters beginning September

General

In order to respond to the need for highly-qualified construction management personnel, this option has been structured to provide the Architectural Technologist graduate with a thorough understanding and working knowledge of the principles, practices and conventions used by construction management personnel in the execution of their functions.

Admission Requirements

• Architectural Technician Diploma or equivalent

Job Opportunities

As a graduate technologist in this program you can expect to find employment with construction contractors and construction engineering firms. You will be capable of assuming the following job functions at the junior level: quantity survey and estimating, quality control, drafting, project inspection, job coordination, project supervision and construction sales etc.

Semester	See Architectural Design Technologist on page 502 for first four semesters.	
Semester 5	(26 hours/week)	Credit
	Adv. Arch. Drafting	8
	Construction Admin. 1	3
	Arch. & Economic Analysis	3
	Quantity Survey & Est. 1	4
	Bldg. Environ. Systems 2	3
	Intro. to Structural Des.	3
1.000	Town Planning	2
Semester 6	(24 hours/week)	Labor I
	Construction Admin. 2	3
	Construction Contract Admin.	3
Nr. e.o.	Cost Control & Analysis	3
10.5	Bldg. Environ. Syst. 3	3
1931-192	Arch. Conserv. & Rest.	3
All and	Quantity Surv. & Est. 2	4
19 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Development Law	2
a de la contra de la	Business Develop. Mgmt.	3

*This program is an option of the Architectural Design Technologist program.

BUIUT ENVIRONMENT PROGRAMS

Civil Engineering Technician

Korth Campus

foursemesters beginning September

This program provides a comrehensive background in the miciples, practices and convenons of Civil Engineering Technoly. You will receive instruction stengineering communications, pofessional ethics and behavior, sublished design procedures, sawing preparation and interpretaion, construction specification ming and interpretation, conmotion material testing and site espection, construction manageseat and estimating, surveying nd layout. As a graduate you will respable of becoming an impormimember of the civil design

or construction team responsible for the design, planning, construction and maintenance of bridges, dams, airports, highways, railways, commercial and industrial buildings of all types. water purification plants and wastewater systems and treatment plants.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- grade 12 English, grade 12 technical or academic mathematics and at least 2 credits in any combination of senior level science and program-related technical courses
- drafting and physics at senior level are strongly recommended

Job Opportunities

As a graduate, you can expect to find openings in the building design and construction firms, in municipal services and transportation systems. Other positions are junior draftsperson, junior designer, quality control technician, estimator and project inspector. Should you wish to further your education, you may be eligible to enter directly into the third year of the Civil Engineering Technologist Program.

Curriculum

Semesters 1, 2, 3 and 4 are outlined on 505.

Civil Engineering Technologist

North Campus

Six semesters beginning September

Civil Engineering Technology is sursemester program with the su four semesters the same as the Civil Engineering Technician fogram. The 5th and 6th semestranable you to carry out more complex and challenging tasks. These include design calculations

Semester 1	(25 hours/week)	Credits
and see the local	Mathematics 1	3
	Mechanics	4
	Construction & Tech. Dwg.	3
1	Survey 1	5
	Const. & Bldg. Materials 1	3
	Communications 1	4
	General Studies	3



505

and preparation and interpretation of drawings, related to subdivisions, streets, roads, and highways. These drawings include wood, steel, concrete, soil structures. Students may be required to put refundable deposits on survey equipment.

Admission Requirements

- Ontario Secondary School Graduation Diploma.
- Additional requirements are 4 credits in English, 4 credits in technical or academic mathematics and a minimum of 2 credits in any combination of senior level science and program related senior level technical courses
- drafting and physics at the senior level are strongly recommended
- in order to continue into third year of the Civil Engineering Technology program, students must meet the requirements for the Civil Technician Diploma with a minimum grade point average of 75% (70% with permission).

Job Opportunities

As a Civil Technologist you will have a variety of options. These alternatives include civil technologist, design technologist, civil draftsperson, construction supervisor, quality control inspector, and project cost estimator. Job responsibilities may include design, detailing and drafting, structural analysis and design, research and technical sales.

BUILT ENVIRONMENT PROGRAMS

Semester 2	(25 hours/week)	Credits
	Mathematics 2	3
	Statics	4
	Structural Drafting	3
	Computer Programming 1	3
	Survey 2	5
	Communications 2	4
	General Studies	3
Semester 3	(25 hours/week)	and the second
	Calculus 1	3
1	Basic Strengths of Mat.	4
	Fluid Mechanics 1	3
	Civil Dwg.	3
-	Highway Technology	6
	Computer Programming 2	3
	General Studies	3
Semester 4	(25 hours/week)	
	Calculus 2	3
and a second	Adv. Stren. of Materials	4
	Soil Mechanics	4
	Municipal Services 1	4
	Const. & Bldg. Materials 2	3
Same and	Air-photo Interpretation	3
- And the second second	Site Mgmt. Technology 1	3
	Technical Report	1
Semester 5	(25 hours/week)	
	Highway Design	4
	Theory of Structures	6
A new Street	Foundations	6
1 Manualtan	Fluid Mechanics 2	4
190.00	Municipal Services 2	3
- Politantes	Environmental Geology	2
Semester 6	(25 hours/week)	
	Structural Design & Drawing	8
	Sanitary Technology	4
	Specifications	2
	Estimating	2
-	Site Management 2	3
	Technical Project	2
	Transportation Planning	

Civil Engineering (Explosives) Technician

North Campus

Four semesters beginning September

As an Explosives Technician will be trained in the safe and ficient use of explosives. You will trained in the basic skills of ading blast holes, setting targes, checking circuits and alety firing blasts. You will also be the to design and plan the charge filling layout, select the explome, interpret test blasts, estimate nling and blast costs, supervise filling and powder handling, at take all the necessary legal, cismic and safety precautions molved in blasting. Students may required to put refundable posits on survey equipment.

Admission Requirements

Adario Secondary School Graduaan Diploma rade 12 English yade 12 technical or academic rathematics sinimum 2 credits in any combinaan of senior level science and rogram related senior level schnical courses (chemistry and physics at the senior level are stongly recommended)

Job Opportunities

As an Explosives Technician you may find employment in construction industrial quarries, open pit and underground mines, existing aphic control and exploraion, technical sales, and troublebooting. Additional opportunities aclude site inspector, exploration, secification writer and estimator.

Field Trip

he students in the two-year Civil taplosives Program will have the opportunity of attending three teld trips. The only cost to the student will be for transportation adliving costs, which will be proximately \$200-250/trip. Stu-

Curriculum	Mudestepp?	
Semester 1	(25 hours/week)	Credits
had sorterfried	Mathematics 1	3
E PER NO	Mechanics	4
and a state	Construction & Tech. Dwg.	3
And the second second	Survey 1 (Civil)	5
The Parline	Const. & Bldg. Materials 1	3
2 Puz min	Communications 1	4
Contractor Congress 1	General Studies	3
Semester 2	(25 hours/week)	
and all shows	Mathematics 2	3
2 Promit a	Statics	4
A STORY OFFICE	Structural Drafting	3
and in which where	Computer Programming 1	3
No web shelly	Survey 2	5
in their your	Communications 2	4
加加に行為す	General Studies	3
Semester 3	(25 hours/week)	the pilling lage working
- Anna	Fluid Mechanics 1	3
	Rock Mechanics	2
	Elec. Cir. & Applic. 1	3
	Chemistry of Explos. 1	3
	Highway Technology	6
	Explosives Technology 1	5
	General Studies	3
Semester 4	(25 hours/week)	
	Vibration Studies	3
	Chemistry of Explos. 2	3
	Drilling Technology	3
	Explosives Technology 2	5
	Explosives Technology 3	5
	Site Mgmt. Tech. 1	3
	Specifications & Cost Anal.	2
	Technical Report	1



BUILT

506

dents who not wish to attend or those who for financial reasons will not be able attend, must complete a comprehensive written assignment instead. 507

Construction Administration (Civil) Technologist*

North Campus

Six semesters beginning September

General

In order to respond to the need for highly-qualified construction management personnel, this option has been structured to provide the Civil Technology Graduate with a thorough understanding and working knowledge of the principles, practices and conventions used by construction management personnel in the execution of their functions.

Admission Requirements Civil Technician Diploma or equivalent

Job Opportunities

As a graduate technologist in this program you can expect to find employment with construction contractors and construction engineering firms. You will be capable of assuming the following job functions at the junior level: quantity survey and estimating, quality control, drafting, project inspection, job coordination, project supervision and construction sales.

Curriculum	service and their services	
Semester 5	(26 hours/week)	Credits
	Construction Admin. 1	3
	Theory of Structures	6
	Foundations	6
1.2.0	Fluid Mechanics 2	4
1.000	Municipal Systems 2	3
Section 2	Quantity Surv. & Est. 1	4
Semester 6	(25 hours/week)	and a share
Courses and	Construction Admin. 2	3
A strength of the	Construction Contract Admin.	3
	Cost Control & Analysis	3
-to Long	Quantity Surv. & Est. 2	4
and the second	Development Law	2
5 157 10	Business Dev. Mgmt.	3
week reaching	Sanitary Technology	4
Sel March an	Eng. & Economic Analysis l	3

*This program is an option of the Civil Engineering Technologist program (505).

BUILT ENVIRONMENT PROGRAMS

中国

Aerial Survey Technician

with Campus

weesemesters beginning

Hou will learn to operate most resof stereo plotting instruments in apping. By overlapping real photographs on special rwing equipment you will rduce a three-dimensional view compile maps showing roads, realings, streams and contours of land.

Note: Students may be required put refundable deposits on phing and survey equipment splied by the College.

Unission Requirements

ario Secondary School Gradua-Diploma de 12 English, grade 12 technioracademic mathematics

daminimum of 2 credits in any mbination of senior level science aiprogram related technical

tsics at the senior level is angly recommended

ab Opportunities

Asan Aerial Survey Technician may find employment in an mapping company or with a minical or federal ency. Career alternatives include mer Operator or Draftsperson.

Curriculum		
Semester 1	(26 hours/week)	Credits
the of the State	Photogrammetry 1	3
14 Jack IV mary	Photogrammetry 2	3
MARK WITH	Environmental Geology	2
E HI PAT	Surveying 1	6
1 Suma Survey	Communications 1	4
a Long Tynn	Mathematics 1	3
see promotion	Survey Drawing 1	2
Thur bushis	Physics (Heat, Light & Sound)	3
Semester 2	(24 hours/week)	And the second second
	Advanced Photogrammetry	4
No. 19. 2 2 1	Cartography	3
The set in	Surveying 2	6
to change in	Survey Drawing 2	2
13 M. J. Parat	Air Photo Interpretation	3
- and the second se	Communications 2	4
the Avenue	Computer Programming 1	3
Semester 3	(10 hours/week)	All shares had been
12 2 3 C 10 1 10	Practical Photogrammetry	10

(This is a concentrated, fiveweek, 6 to 7 hrs/day, course commencing at the end of the Winter Semester).



Hydrographic Survey Technologist

North Campus

Six semesters beginning September

Canada, a maritime nation, is bounded on three sides by one of the longest coastlines in the world. On the fourth side are the Great Lakes. These coastlines are becoming increasingly important to Canada for navigational purposes, as a fisheries resource, for off-shore exploration, and as a relatively unpolluted ecological paradise.

Mapping and surveying these waters are the prime responsibility of the Canadian Hydrographic Service. They must chart and map water depths, currents, underwater obstructions and obtain data on the marine life in these waters. This program has been developed in liaison with the Canadian Hydrographic Service as the first and only hydrographic training program in Canada. During the college portion of the program, you will learn basic skills which can be applied to land, coastline and water surveys. You will also specialize in marine and hydrographic techniques such as: position fixing by astronomical and electronic methods and various forms of radar, depth measurement using acoustic and sonar principles, as well as other forms of hydrographic data on water temperatures, currents, sea bed geology and marine life. You will become familiar with the basic principles of seamanship and navigation and learn the basics of marine and maritime law. During the summer, shipboard employment may be available through the Canadian Hydrographic Service as a practical extension of your college training program. Students may be required to put refundable deposits on drafting and survey equipment supplied by the College.

BUILT ENVIRONMENT

PROGRAMS

0	(25 hours/week)	Credits
Semester 1	Mathematics 1	3
	Physics (Heat, Light & Sound)	3
	Elec. Cir. & Applic. 1	3
A PARTY AND	Survey 1	6
		2
	Survey Drawing 1 Survey Camp 1 (Spring)	4
	Communications 1	4
Semester 2	(24 hours/week)	Contraction of the
AND LOUGH	Mathematics 2	3
a Latteria	Survey 2	6
in allows	Survey Computations	3
	Survey Drawing 2	2
and south and	Hydrographic Survey 1	3
and the second	Computer Programming 1	3
	Communications 2	4
Semester 3	(26 hours/week)	Pront for
Transfer and	Control & Elect. Surv. 1	5
and the second	Advanced Survey 1	4
	Highway Technology	6
	Photogrammetry 1	3
Street Services	Environmental Geology	2
	General Studies	3
	Calculus 1	3
Semester 4	(26 hours/week)	
	Air Photo Interpretation	3
	Calculus 2	3
	Cont. & Elect. Survey 2	3
	Land Division	3
	Survey Law 1	2
	Computer Applications Lab 1	2
	Advanced Survey 2	2
	Astronomy	2
	General Studies (2)	6 .

nester 5	(24 hours/week)	Credits
A STATE OF	Hydrographic Survey 2	4
No.	Oceanography & Meteorology	4
	Geodesy	6
1997	Computer Programming 2	3
1000	Tidal Studies	4
	Statistics	3
nester 6	(24 hours/week)	
	Marine Law	2
	Navigation, Charts & Pilotage	4
-	Adjustments of Observation	4
8 3 m	Cartography	4
	Survey Camp 2	4
Stall -	Electronic Positioning Syst.	4
Contraction of the	Computer Applications Lab 2	2

Emission Requirements

ario Secondary School Graduam Diploma ade 12 English, and technical or ademic mathematics minum of 2 credits in any mbination of senior level science

alprogram related senior level statical courses (physics at senior level is strongly recomraded)

Job Opportunities

After graduation you may find employment in widely varied applications of hydrography and hydrography-related activities such as seismic surveys, offshore exploration and land survey for offshore operations. There is an increasing demand from survey engineering and consulting companies, offshore exploration companies and government departments such as public works, and ocean and acquatic sciences for hydrographic surveyors. Career alternatives in this field include party chief, surveyor (instrument person), field data processor draftsperson and in programming. In most of these jobs you may have to travel to remote locations.

Start Barris Torton



Survey Technician

North Campus

510

Four semesters beginning September

Working under the direct supervision of a licensed land surveyor, the survey technician will be able to perform technical surveys and conduct the technical aspects of legal surveys, topographical surveys using conventional or electronic equipment, take celestial observations, prepare plans and perform computations related to all phases of survey operations. Depending on individual initiative, the survey technician could move into supervisory capacity as a party chief or supervisory survey related operations (supplies, transportation, safety etc.).

Note: Students may be required to put refundable deposits on drafting and survey equipment supplied by the College.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- •grade 12 English, grade 12 technical or academic mathematics
- a minimum of 2 credits in any combination of senior level science and program related senior level technical courses
- Physics at the senior level is strongly recommended

Job Opportunities

Possible employers include private land surveyors, federal, si provincial and municipal govern se ment agencies, construction companies and photogrammetric firms. Career opportunities exist in both outdoor and indoor conding a and include field positions such as chairman/woman, rodman/ woman and instrumentman/ woman. Office positions include draftsperson and field data procest on SOL.

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N th 08 D S I

As a graduate survey technicia you may be eligible to enter directly into the 5th semester of the Survey Technology Program. Successful completion of the 5th and 6th semesters will allow your spi graduate as a survey technologist at

Curriculum

See semesters 1, 2, 3 and 4 on 511

BUILT ENVIRONMENT PROGRAMS

with Campus

5-

ursemesters beginning september

Survey Technology shares the ist four semesters with the survey in duician program. The fifth and DDS and semesters enable you to my out more complex and chalering tasks such as: photogramsty, cartography, geodetic surveys, adjustment of servations and error analysis. an pesurvey technologist will while to supervise specialized the surveys, perform calculations raplan of a subdivision, prepare wfield layout of curves and gials, use a computer program to to fust and analyse field observams, perform the title search, plan mal mapping, and write technical ports on surveys conducted ater their supervision. Note: stusals may be required to put fundable deposits on drafting and avery equipment supplied by the dlege.

Idmission Requirements

ingio Secondary School Graduain Diploma

nde 12 English, grade 12 technialor academic mathematics at minimum of 2 credits in any publication of senior level science alprogram related senior level anical courses issics at the senior level is angly recommended ide: in order to continue into Edyear of the Survey Technol-Sprogram, students must the requirements for the

avey Technician Diploma with a sumum grade point average of is (70% with permission).

Cu	rri	cu	lu	m
			_	

Semester 1	(25 hours/week)	Credits
Marganies -	Mathematics 1	3
Contraction -	Physics (Heat, Light, Sound)	3
dian Seattle	Elect. Cir. & Applic. 1	3
Sec. All Gi	Survey 1	6
Antiche Man	Survey Drawing 1	2
101112	Survey Camp I (Spring)	4
1 Binlanda	Communications 1	4
Semester 2	(24 hours/week)	Contraction of the second second
and the second in	Mathematics 2	3
11.27 (10.19.1	Survey 2	6
and the second	Survey Computations	.3
A DECKY	Survey Drawing 2	2
that the	Hydrographic Survey 1	3
	Computer Programming 1	3
	Communications 2	4
Semester 3	(26 hours/week)	The second
Alue son	Calculus 1	3
	Control & Elect. Survey 1	5
the Parket	Advanced Survey 1	4
2011-049	Highway Technology	6
	Photogrammetry 1	3
and the second	Environmental Geology	2
	General Studies	3
Semester 4	(26 hours/week)	San Printer
	Air Photo Interpretation	3
	Calculus 2 (Survey)	3
	Control & Elect. Survey 2	3
	Land Division	3
	Computer Applic. Lab 1	2
4	Advanced Survey 2	2
	Astronomy	2
540	Survey Law 1	2
	General Studies (2)	6



511

Job Opportunities

Possible employers include private land surveyors, federal, provincial and municipal government agencies, construction companies and photogrammetric firms. Career opportunities include both field and office positions. Field positions include party chief and surveyor. Office positions include draftsperson, title searcher, supervisor or office manager. Under the supervision of a surveyor your responsibilities may include laying out new property divisions and buildings, retracing old property boundaries, planning new subdivisions, and routing locations for highways, pipelines and utilities.

		and the second se
Semester 5	(25 hours/week)	Credits
	Geodesy	6
	Engineering Surveys	4
Constant of the	Photogrammetry 2	3
	Survey Law 2	4
A STREET	Computer Programming 2	3
	Statistics	3
1999	Town Planning	2
Semester 6	(23 hours/week)	
	Adjustment of Observations	4
1 they have	Advanced Photogrammetry	4
Sale sales	Legal Surveying	4
	Cartography	3
	Computer Application Lab 2	2
	Survey Camp 2	4
21 20 anni	Technical Project	2
		and the second se

BUILT ENVIRONMENT PROGRAMS

中中国

CHEMICAL

Careers In Chemistry

As a graduate from one of Humber's four Chemistry progams, you are qualified to join a cientific team initially as a junior member with the possibility of ployment after graduation soally falls into one of the followg four major areas:

Analytical or Quality Control Laboratories

Your main function as an analyst is to ensure that all materials purchased or sold by your company meet certain requirements. You may determine if an ore contains enough gold to make mining operations economically feasible, or you may monitor the sulphur dioxide content of the city air. You may analyse blood samples in a forensic lab. To accomplish tasks of this nature, you will find that you must be familiar with the operation of specialized instruments. Humber's laboratories are equipped with gas chromatographs, infra-red spectrophotometers, atomic absorption spectrophotometers, pH meters, refractometers and other equipment necessary for chemical analysis.

Technical Service and Sales

As a technical sales representative.you will contact customers interested in the products your company manufactures. You may also occasionally trouble-shoot, service or set-up equipment purchased from your company. In some jobs you can get a company car and be called on to travel extensively.

Research and Development Laboratories

In a research laboratory you will take part in the development of new products or the improvement of established ones. You may assist in the development of 'everlasting razor blades', a deodorant that provides protection for a whole week, an antacid that absorbs 200 times its weight in excess stomach acid, a lead-free gasoline, a lubricating oil that eliminates oil changes and plastic bottles that will disintegrate in sunlight. The variety of projects you may be involved in is without limitation.

Pilot Plants and Production

Pilot plant experiments are experiments on a much larger scale than most development laboratory experiments. Pilot plant experiments usually involve working with up to several hundred pounds of materials.

If you are involved in production, you may operate a 'cat cracker' in an oil refinery, you may prepare and colour match several hundred gallons of paint, or you may be involved in the manufacture and packing of large quantities of measle vaccine. With your background from Humber College and additional experience, you can advance to a responsible position in this expanding field.



Chemical Laboratory Technician

North Campus

Four semesters starting September

A graduate of this program can analyse materials and products, synthesize basic organic compounds and prepare solutions. You will also be able to assemble and operate laboratory equipment, conduct routine tests, prepare graphs and report results in a wide variety of research and testing functions. You may have to place refundable deposits on lab manuals or other items supplied by the College.

Admission Requirements

•Ontario Secondary School Graduation Diploma

- grade 12 English, grade 12 technical or academic mathematics and a minimum of 2 credits in any combination of senior level science and program-related senior level technical courses
- grade 11 or 12 physics and chemistry at least at the general level are strongly recommended

Job Opportunities

You can find work in qualitycontrol testing and inspection, research, sales and service, pharmaceutical or public health laboratories, or perhaps in pollution control and measurements. As an alternative, you may continue for a third year in one of our chemical technology programs.

Curriculum	and a part of the second	0	-
Semester 1	(24 hours/week)	Credits	-
	Mathematics 1	4	
	Physics (Heat, Light & Sound)	4	N. N
	General Chemistry 1	4	-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bioscience	4	
	Stoichiometry	4	-
1.1.1	Communications 1	4	
Semester 2	(24 hours/week)		
	Physics (Mechanics & Waves)	3	
1	General Chemistry 2	4	
	Organic Chemistry 1 Lecture	2	
The second second	Organic Chemistry 1 Lab	4	1
	Introductory Microbiology	4	
	Statistics	3	1
in the second	Communications 2	4	-
Semester 3	(26 hours/week)		
- in the second second	Organic Chemistry 2 Lecture	2	
No. No. Negati	Organic Chemistry 2 Lab	4	
THE REAL	Analytical Chemistry 1 Lecture	3	-
auto-dab	Analytical Chemistry 1 Lab	4	
00011	Methods of Microbiology	4	-
TH 2411	Physical Chemistry	2	1
1 main	Calculus 1	4	
N. SONE	General Studies	3	
Semester 4	(26 hours/week)	TE SCR	
A State of the second	Elec. Meas. for Chem. Systems	4	2 1
San San	Lab Instrumentation	4	
1 - and the second	Lab Instrumentation Applications	4	
	Environmental Microbiology	4	
Contraction of the	Process Industries & Plant Safety	2	_
	General Studies (2) Analytical Chemical Applications	6	-

CHEMICAL PROGRAMS

Chemical Technologist

hCampus

semesters starting

bologist level

whist four semesters are the sthose of the Chemical Matory Technician program. In hind year, students will take of these options: industrial, biology, engineering. isa graduate of the six-semesthemical Technologist proa Industrial option, you will pified to perform a variety of atasks in a multitude of stries. These tasks include the isis of industrial raw mate-Atteinterpretation, calculation supporting of the results, and revelopment of text procedures inther testing.

Sith the Microbiology option millbecome skillful in preparindutions and samples for mental analysis and micromexaminations, in analysing industrial raw materials fished products by using tical, chemical, biological isstrumental methods. In choose the Engineering myou will be prepared to meand operate laboratory adot-plant equipment used in strial, analytical and manufacreperations. You will also she to handle safety problems Moleum, mining, rubber, a, glass, food or metallurgical Mines.

Curriculum

Semester 1, 2, 3 & 4 are the same as Chemical Laboratory Technician—see 512.

INDUSTRIAL Option Semester 5 (26 hours/week) Credits Calculus 2 3 Analytical Chemistry 2 Lecture 4 Analytical Chemistry 2 Lab 4 Unit Operations 1 4 Instrumentation for Chemical 4 Processes **Biochemistry Lecture** 3 **Technical Report** 1 3 Computer Program. for Chem. Tech. Semester 6 (24 hours/week) Credit Chemical Thermodynamics & 3 Kinetics 3 Industrial Organic Chemistry 4 Industrial Organic Chemistry Lab 4 Unit Operations 2 4 **Biochemistry Lab** 4 Principles of Process Control **Environmental Studies**

CHEMICAL PROGRAMS

513

Admission Requirements

- Ontario Secondary School Graduation Diploma
- •Grade 12 English, technical or academic mathematics and a minimum of 2 credits in any combination of senior level science and program-related senior level technical courses
- •Grade 11 or 12 physics and chemistry, at least at the general level, are strongly recommended
- in order to continue into third year of Chemical Technology options, students must meet requirements for the Chemical Lab Technician Diploma with a minimum grade point average of 75%. (70% with permission).

Job Opportunities

You may find work as an operating member in testing and qualitycontrol teams, technical sales, research, and, with experience, as an operating supervisor in chemical or processing industries. With a specialization in microbiology, you would get into food, pharmaceutical and chemical laboratories.

MICROBIOLOGY Option Credits (26 hours/week) Semester 5 4 Analytical Chemistry 2 Lecture 4 Analytical Chemistry 2 Lab 4 Industrial Microbiology 3 Calculus 2 3 **Biochemistry** Lecture 1 **Technical Report** 4 Microscopy & Photomicrography 3 Comp. Program. for Chem. Tech. Semester 6 (24 hours/week) 4 **Biochemical Lab** Industrial Organic Chemistry 3 Lecture Industrial Organic Chemistry Lab 4 Chemical Thermodynamics & 3 Kinetics Food Microbiology 4 Microbial Ecology 4 **Environmental Studies** 2 **ENGINEERING** Option Semester 5 (26 hours/week) Calculus 2 3 Instrumentation for Chemical 4 Processes **Chemical Engineering I** 3

甲甲酮

Manager S.	Unit Operations 1	4
	Computer Program. for Chem. Tech.	3
and Bernel	Technical Report	1
1. 20 1 2 1 1 1 S	Analytical Chemistry 2 Lecture	4
四月1日18月1日	Analytical Chemistry 2 Lab	4
Semester 6	(24 hours/week)	COLOR DE
	Industrial Organic Chemistry Lecture	3
The second second	Industrial Organic Chemistry Lab	4
	Unit Operations 2	4
2012	Chemical Thermodynaics & Kinetics	3
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Principles of Process Control	4
-	Chemical Engineering 2	4
- Contraction	Environmental Studies	2
and and and a second second		- The second

Computer Engineering Technologist

th Campus

stemesters starting

the graduate of this program the graduate of this program the a strong software orientasupplemented with an approsemount of hardware semount of hardware semonts) experience. Upon setton, you will be able from the following tasks: structured analysis to specify, stop and test systems ser well-structured and wellmented program modules t problems through the appliof appropriate computer rugs

ente hardware and software potents into complete systems a operating system tools to solution of real-time problems astand and apply different asunications protocols used in soluted computer systems. Yumay be required to purchase appriate electronic component and materials as recommended a College.

tission Requirements Secondary School Gradua-

///

Diploma 2 12 English, grade 12 techniacademic mathematics Jum 2 credits in any combinadisenior level science and Jum related senior level cial courses. Computer sciand physics courses are Jurecommended.

Curriculum	All and a second second	
Semester 1	(26 hours/week)	Credit
	Mathematics 1	4
- Marine Marine	Communications 1	4
Line of the second	Physics (Heat, Light, Sound)	3
	Electronic Circuits & Application	s 14
Start Start	Logic 1	4
1	Computers in Business	3
	Introduction to Pascal	4
Semester 2	(25 hours/week)	CARLES AND AND
and a strengt	Mathematics 2	3
ALLEY -Distance	Communications 2	4
Marine Char	Physics (Mechanics & Waves)	3
	Electronic Circuits & Application	s 2 4
	Logic 2	4
	Problem Solving with Pascal	3
	Circuits & Measurements	4
Semester 3	(25 hours/week)	CALCULATION OF
	Computer Architecture 1	4
	Numerical Methods 1	4
	Programming Languages	6
	Data Communications Systems 1	4
	General Studies	3
	Algorithms & Data Structures 1	4
Semester 4	(25 hours/week)	
	Computer Architecture 2	2
	Numerical Methods 2	4
	Systems Analysis	4
1.7	Software Project 1	4
	General Studies	3
	Algorithms & Data Structures 2	4
	Assembler Programming	4



Job Opportunities

The graduate will work under the supervision of a computer systems engineer either individually or as part of a team. Employment opportunities exist in a wide range of industries that use embedded microcomputers or stand-alone computer systems. The industries will include process control, environmental control, automated warehousing, flexible manufacturing systems, telecommunications, local area networks and office automation.

Semester 5	(25 hours/week)	A STATISTICS
	Operating Systems 1	4
24.27 2.4	Real Time Systems	4
-	Micro Processor Development Systems	4
	Data Communications Systems 2	4
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Peripherals	4
	Software Project 2	5
Semester 6	(25 hours/week)	WARDER AND
	Operating Systems 2	4
and set of the	General Studies	3
A STATE OF	Computer Applications	4
1 A COLOR	Software Management	4
in the second	Graphics Systems	4
(1929-194) (1929-194)	Software Project 3	6
		A REAL PROPERTY OF A REAL PROPER

ELECTRONICS PROGRAMS

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中国

Electrical (Control) Engineering Technician

weensway A Campus

tweek program starting nery week

The Electrical Industry is in ndant need of technically trained roonel. The College is meeting need by providing an educanal program designed to provide ound base for career developupon graduation. As a aduate of Humbers Electrical motrol) Engineering Technician wram you will have received ining in industrial and/or other nications of computer, electroninstrumentation, electrical sign, the generation and transsion of power, as well as conceptual understanding, relation and control of electrical supment and power systems. The physics of circuit and ipment behaviour is emphaenabling the graduate to effexible in analysing unfamiliar intions and problems. The man content is designed to wide the graduate with a wide me of career opportunities with high degree of job mobility advancement potential as a chnician.

mission Requirements

Diploma Mario Secondary School Gradua-Diploma File 12 English, grade 12 techni-

are the end of the second seco

Curriculum	Charles Marine	Same Anther
Semester 1	(25 hours/week)	Credit
1 August 1	Physics 1	3
Jahr Landern F	Mathematics I	4
a fata a fata a	Communications 1	4
Smooth a	Computer Programming & Concepts	3
	Electrical Circuits & Applications 1	8
at a work in	General Studies	3
Semester 2	(25 hours/week)	
	Physics 2	3
and the second second	Mathematics 2	4
	Communications 2	4
	D.C. Equipment	7
	Electrical Circuits & Applications	2 4
	General Studies	3
Semester 3	(25 hours/week)	
	Electrical Design 1	3
	Mathematics 3	3
	A.C. Equipment 1	4
	Industrial Electronics 1	8
	Electrical Circuits & Applications	3 4
A CONTRACTOR OF	General Studies	3
Semester 4	(25 hours/week)	all has been all and
the Research Street	Electrical Design 2	3
	Industrial Instrumentation	3
	A.C. Equipment 2	4
	Digital Circuits	4
	Industrial Electronics 2	4
	Control Systems	4
	Power Systems	3

Job Opportunities

Upon graduation, the Electrical (Control) Engineering Technician will be concerned with repair, calibration, maintenance or sales of electrical equipment. A technician will normally work under the guidance of a technologist or engineer. The Electrical (Control) Engineering Technician is required whenever electrical energy is used or generated.



Electronics Engineering Technician

North Campus

Four semesters starting September and January

This program is designed to provide you with a comprehensive background in modern electronic principles and with practical experience in modern, wellequipped laboratories. The practical experience gained in this program prepares you for employment in the computer, telecommunications, and industrial electronics industries. You may have to purchase electronics components kits and a recommended multimeter at the College.

Admission Requirements

•Ontario Secondary School Graduation Diploma

- grade 12 English, grade 12 technical or academic mathematics and a minimum of 2 credits in any combination of senior level science and program related senior level technical courses
- electronics and physics at the senior level are strongly recommended

Job Opportunities

As an Electronics Engineering Technician you may find employment in a variety of industrial, engineering, and scientific organizations. You may become involved in equipment and component manufacturing, research and testing, equipment maintenance and repair, and electronic sales.

As a graduate of this foursemester program, with sufficiently high standing, you may further develop your expertise by entering the fifth semester of the Electronics Engineering Technology Program.

Curriculum	the second s	Credit
Semester 1	(26 hours/week)	4
	Mathematics 1	4
	Communications 1	
N 3 8 1	Physics (Heat, Light, & Sound)	3
	Elect. Circuits & Applications 1	4
	Logic l	4
	Elect. Production Technology 1	4
	Basic Programming	3
Semester 2	(26 hours/week)	a liter
	Mathematics 2	4
	Communications 2	4
	Physics (Mechanics & Waves)	3
2	Elect. Circuits & Applications 2	4
	Circuits & Measurement	4
	Elect. Production Technology 2	3
	Logic 2	4
Semester 3	(26 hours/week)	
	Calculus 1	4
	Elect. Circuits & Applic. 3	4
	H.F. Circuits	. 4
	Microcomputer Systems 1	4
	Principles of T.V.	4
State Long	General Studies (2)	6
Semester 4	(25 hours/week)	hours
	Electro-Mechanical Techniques	3
	Elect. Circuits & Applic. 4	4
	Microcomputer Systems 2	4
	Troubleshooting	4
	Telecommunication Systems	4
	Motors & Controls	
	motors & Controis	3

ELECTRONICS PROGRAMS

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Electronics Engineering Technologist

North Campus

six semesters starting september and January

The first four semesters are the as for the Electronics Engierry Technician program. 5th and 6th semesters provide advanced studies in the boot electronics. Emphasis is action advanced circuitry resurements. testing and troubletoting of complex equipment, sign and construction of protopes, and the preparation of structure manuals and specificaas for a wide variety of modern etronic systems.

You may be required to purchase ectronics component kits and sommended test equipment at the follege.

Idmission Requirements

nio Secondary School Gradua-

ade 12 English, grade 12 technitor academic mathematics adaminimum of 2 credits in any mbination of senior level science alprogram related senior level chical courses

Atronics and physics at the for level are strongly recomadd

the in order to continue into dyear of the Electronics the ening Technology program ints must meet the requirefor the Electronics Engining Technician diploma with a the mum grade point average of 2(70% with permission).

Curriculum for first 4 sen	nesters see 516	
Semester 5	24 hours/week)	Credit
1.1.1.1.1.1.1	Calculus 2	4
And the first of	Elec. Circuits & Appl. 5	4
and maken	Opto-Electronics	4
A DECK	Video Systems	4
(man) here	Microcomputer Systems 3	4
	Techniques of Design	3
Semester 6	(25 hours/week)	Carlos For I
- Contraction	Applied Statistics	3
1 Company	Elec. Circuits & Appl. 6	4
- Denkon -	Control Systems	4
district party	Data Communications	4
Print address	Applied Electromagnetics	4
Long Aland	Technical Project	2
MAR PLAN	Microwave Techniques	4

Job Opportunities

As a graduate of the Electronic Technology program you may work in industries as varied as telecommunications, control equipment, computer systems, and industrial electronics systems.

As a technologist you can use your greater theoretical training in high technology areas such as fibre optics, microprocessor application and development, and electronic design techniques. You may also use your skills troubleshooting prototype equipment prior to manufacture.

ELECTRONICS PROGRAMS

Industrial Instrumentation Engineering Technician

Queensway A Campus

64 weeks starting every week.

Students proceed at their own pace and work with teachers on a one-to-one basis through individualized learning packages.

The Industrial Instrumentation Technician program will provide you with knowledge of up-todate technology and the skills necessary to function in today's technical and automated industries. Some of the subjects in this program are:

mechanics, electronics, physics and chemistry. Graduates from this program will exhibit the ability to calibrate, troubleshoot, repair and maintain instruments and distributed control systems (such as the Honeywell TDC 2000) used for process measurement and control.

This program is a self-paced learning program and is also sponsored by Canada Employment and Immigration Commission (CEIC). For information on sponsorship please contact your local office.

Admission Requirements

• Ontario Secondary School Graduation Diploma.

• Additional requirements are grade 12 English, grade 12 technical or academic mathematics and a minimum of two credits in any combination of senior level science and program related senior level technical courses.

Job Opportunities

With industry becoming more automated every year, there is a demand for instrumentation technicians.

Graduates will find employment in fields such as manufacturing, pulp and paper, nuclear and hydro generating plants, mining, petro chemical, and natural gas, instrument manufacturing companies, plant construction, consulting

Semester 1	(25 hours/week)	Credit
	Physics I	3
1000	Mathematics 1	4
	Communications 1	4
	Computer Programming & Concepts	3
	Electrical Circuits & Applications 1	8
1.1.1.1.22	General Studies	3
emester 2	(27 hours/week)	
A	Physics 2	3
- 10 × 7	Mathematics 2	4
(marked as un	Communications 2	4
	Workshop Practices	2
16-512	Measuring Instruments 1	5
	Electrical Circuits & Applications 2	4
	General Studies	3
emester 3	(26 hours/week)	
	Mathematics 3	3
	Measuring Instruments 2	4
inst 15	Pneumatic Instruments	4
and the second	Electronics 1	5
	Chemistry 1	2
No. of Concession	Automatic Controls I	5
	General Studies	3
emester 4	(24 hours/week)	1
	Final Control Elements	3
the states	Chemistry 2	2
Contraction of the	Electronic Applications	3
	Automatic Controls 2	5
	Analysis Instruments	3
	Electronics 2	4
	Computer Control	2
	Instrument Design Drafting	2

firms, and service industries. Duties will involve calibration, repair and maintenance of various systems. Your training will enable you to choose other occupations relating to instrumentation such as,

instrumentation technical salesperson, process operator, and control maintenance technician.

ide aviation and a state and a

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ELECTRONICS PROGRAMS

Air Conditioning, Refrigeration, Engineering Technician

North Campus

our semesters beginning september

As an air conditioning and ingeration technician you will be a broad and intensive knowle of the design, installation ioperation of heating and conditioning systems in residencommercial and industrial lings. As a technician you will be able to size and select momental and pollution conequipment.

Mission Requirements

nio Secondary School Gradua-

ade 12 English, grade 12 technifor academic mathematics taminimum of 2 credits in any mbination of senior level science dprogram-related senior level thical courses bechnical subject and physics at

exenior level are strongly

MOpportunities

As a graduate, you may work for kign contractor, in installation, rice, and retro-fitting of existing Mings, including energy ts. Opportunities exist as sales magnatives, or specifications - Ters. With experience you become an estimator and work with plans and specifito determine material and requirements in preparation Couract bids. Design contrac-The responsible for design - ayout, and specification schanical equipment to meet Must requirements. Senior wions in this area include: projmanager (in charge of a specific many project, responsible for materials designed, materials ref and on-site problem ... service manager (responfor supervising after sales publishing service inforand providing technical gloemployees and cus-

Curriculum	Currie diates	
Semester 1	(26 hours/week)	Credits
Children and the	Mathematics 1	3
a the second	Physics (Heat, Light & Sound)	3
Lidden Start	Psychrometrics	3
all shares in	Refrigeration 1	4
A State of Calif	Residential Systems	3
man of Steam	Design Loads I	3
a minute	Engineering Drawing	3
	Communications 1	4
Semester 2	(25 hours/week)	to an a
1. 1. 1. 1. 1. 1.	Mathematics 2	3
Langersterner	Physics (Mechanics & Waves)	3
101 2 m	Refrigeration 2	4
and the state	Design Loads 2	3
Manual In Print	Electricity I	3
Street States	Computer Programming 1 (Basic)	2
a second wrong	Communications 2	4
Contract of spectra	General Studies	3
Semester 3	(24 hours/week)	100
	Mathematics 3 (Mgmt. Appl)	3
	Electricity 2	3
	Computer Programming 2	2
	Industrial Org. & Mgmt	3
	Design Loads 3	3
	Hydronics & Steam Syst. 1	3
	Comm. Syst. 1	4
	General Studies	3
Semester 4	(25 hours/week)	
	Calculus I	3
	Thermodynamics	3
	Refrigeration 3	3
	Engineering & Econ. Anal. 1	3
	Comm. Syst. 2	4
	Equip. & Energy Selection	3
	Solid State HVAC Controls	3
		3

Note: Also look at 522 Solar Engineering Technologist and 520 Energy Management Engineering Technologist to which successful students can transfer in third year. ENVIRONMENTAL SYSTEMS PROGRAMS 520

Energy Management Engineering Technologist

North Campus

Six semesters beginning September

This program will provide its graduates with a broad and intensive knowledge of the design, operation and installation of energy systems for residential, commercial and industrial building complexes.

A graduate will be capable of applying engineering principles and conventions to achieve optimum energy conservation through a process of evaluation, monitoring, control, assessment and corrective action.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- grade 12 English, grade 12 academic or technical mathematics, senior level physics and chemistry, or any combination of senior level science and technical subjects
- movement from semester 4 to 5 requires a 75% average in semester 4 (70% with permission).

Job Opportunities

A graduate of this program can expect a wide variety of employment opportunities in the residential, commercial and industrial sectors as well as in government departments at the federal, provincial and municipal levels. Graduates will be in demand by heating, ventilating and air conditioning equipment manufacturers, consulting engineers, architects, manufacturing industries, process industries, wholesalers, mechanical contractors and building owners (e.g. governments, school boards, hospitals, banks, chain stores and property management companies).

Semester 5	(24 hours/week)	Credits
	Calculus 2	3
	Instrumentation 1	3
	Energy Management Technology 1	6
-	Engineering & Econ. Analysis 2	3
	Hydronic & Steam Systems 2	3
	Heat Transfer	3
1	Plumbing & Fire Protection Systems	53
Semester 6	(26 hours/week)	
	Energy Management Technology 2	6
1. Sec. 1. Sec	Instrumentation 2	3
	Process Systems	3
	Mechanical Estimating	4
Constant of	Contract Administration	3
1. 1. S. 1.	Lighting Systems	3
		2
	Energy Resources & Supplies	2

ENVIRONMENTAL SYSTEMS PROGRAMS

四十十 十

Construction Administration (Mechanical) Technologist*

Transie

Horth

semesters beginning september

eneral In order to respond to the need highly-qualified construction agement personnel, this optio sbeen structured to provide the subste with a thorough undernding and working knowledge the principles, practices and eventions used by construction gement personnel in the ention of their functions.

Mission Requirements

Conditioning and Refrigeratio chnician Diploma or equivalent

h Opportunities

As a graduate technologist in sprogram you can expect to find poyment with construction tractors and construction ineering firms. You will be able of assuming the following functions at the junior level: utity survey and estimating, aity control, drafting, project pection, job co-ordination, pect supervision and construcsales etc.

Semester 5	(25 hours/week)	Credits
the standard	Calculus 2	3
The ball of the second	Instrumentation I	3
Transition of the	Eng. & Economic Analysis 2	3
The second	Hydronic & Steam Systems 2	3
all is some	Plumbing & Fire Prot. Syst.	3
I wind in	Quantity Surv. & Est. 1	4
-TRenut V	Construction Admin. 1	3
	Heat Transfer 1	3
Semester 6	(25 hours/week)	moles. Line
PERT PROVIDENT	Instrumentation 2	3
Carl La Port	Quantity Surv. & Est. 2	4
nist of the p	Process Systems	3
2 3 - 18 20	Construction Admin. 2	3
and the second second	Cost Control & Analysis	3
mi? minst	Business Dev. Mgmt.	3
W. Bullinson	Construction Mgmt. Proj. & Rep	ort 3
	Construction Contract Admin.	3

*This program is an option of the Energy Management Engineering Technologist program.

> ENVIRONMENTAL SYSTEMS PROGRAMS

521

Solar Engineering Technologist

North Campus

Six semesters beginning September

This program will give you an excellent background for entry into the growing renewable energy industry. Your knowledge of the principles of energy conservation and the application of solar energy to industrial and domestic heating requirements will be in demand. You will receive training in refrigeration, air conditioning and instrumentation relating to building environmental systems. Direct hands-on training in the solar laboratory, coupled with field trips will give you the experience needed to enter this important new industry.

Admission Requirements

•Ontario Secondary School Graduation Diploma

• grade 12 English, grade 12 technical or academic mathematics and a minimum of 2 credits in any combination of senior level science and program-related senior level technical courses

• a technical subject and physics at the senior level are strongly recommended

Job Opportunities

ENVIRONMENTAL SYSTEMS PROGRAMS

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You can expect a wide variety of employment opportunities. Your skills will be needed by refrigeration and heating companies, architects, consulting engineers, and solar equipment manufacturers. Government offices at all levels from federal to municipal will be seeking employees with your training.

Semester 5	(24 hours/week)	Credits
	Calculus 2	3
1225 June 1	Instrumentation 1	3
	Eng. & Economic Anal. 2	3
	Hydronic & Steam Syst. 2	3
mark tests	Plumbing & Fire Protection Sys	stems 3
S COM LANS	Solar Energy 1	6
S. Scharog	Heat Transfer	3
Semester 6	(26 hours/week)	
the sheet	Solar Energy 2	6
And the second second	Instrumentation 2	3
5 Jan 19. 19	Mechanical Estimating	4
ASSESSION AND A	Lighting Systems	3
as here	Energy Res. & Supplies	2
in little a	Solar Project & Report	3
Harphice and	Computer Simulation Lab	2
the mattyphic	Process Systems	3

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Industrial (Management) Engineering Technologist

arth Campus

tisemesters beginning

he Industrial (Management) meeting Technologist program isgoed to satisfy the complex at of modern industry. As a mate from this six-semester man you will be familiar with the frame ering and business meeting techniques that can applied to virtually all industry impress enterprises.

Curriculum		
Semester 1	(27 hours/week)	Credit
Complete autoria	Mathematics 1	4
and A bratest	Communications 1	4
distant P.	Mechanics	4
Tailen The	Statistics	3
di Manas	Manufacturing Processes 1	4
Compros r ville	Mechanical Tech. Drawing	4
	Total Loss Control	4
Semester 2	(27 hours/week)	North Car
in the courts	Mathematics 2	4
A vielek a in	Communications 2	4
in the state of	Statics	4
B. B. Martin	Time Study 1	4
wol - K persona	Fortran Programming for Ind. Eng.	4
and the second	General Studies	3
and to real	Basic Tool & Fixture Design	4
Semester 3	(21 hours/week)	1
a data and a	Electrical Control 1	3
	Basic Strength of Materials	4
The Aller Mark	Manufacturing Processes 2	4
the state of the	Time Study 2	4
	General Studies	3
	Metrology	3

INDUSTRIAL PROGRAMS

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Admission Requirements

- •Ontario Secondary School Diploma
- grade 12 English, grade 12 technical or academic mathematics and a minimum of 2 credits in any combination of senior-level science and program related senior-level technical courses.

Job Opportunities

The diversity of industrial engineering technology creates a variety of employment opportunities in areas such as quality control, facilities planning, operations research, product development and procedures planning. As an industrial engineering technologist your responsibilities may include the development of work standards and manpower planning to maximize the effective use of personnel, materials and machines. This involves time studies and analysis techniques. With experience and a desire to become part of the management team, a graduate can move into a middle management position such as a production superintendent.

Semester 4	(27 hours/week)	
	Industrial Organization and	4
1.00	Management	
	Materials Sciences	3
10 C 10 C 10 C 10 C	Elements of Accounting	4
	Stress Analysis	4
	General Studies	3
	Motion Study	3
1000	Quality Control	3
a story and	Manufacturing Cost Estimating	3
Semester 5	(27 hours/week)	a local division
	Methods Analysis	4
	Wage & Salary Administration	4
	Industrial Psychology	4
A RES	Operations Research	4
2.19.19.19.7	Production & Inventory Control	4
1.000	Computer Applications	3
ou Apple	Systems & Procedures	4
Semester 6	(23 hours/week)	
	Plant Layout & Materials Handling	8
	Computer Integrated Man.	3
	Industrial Economics	4
	Labour Relations	4
Chanter it is	Project Management	4
and the second s		

INDUSTRIAL PROGRAMS

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Safety Engineering Technologist

withCampus

streemesters beginning

As a safety professional you will avolved in recognizing and huting potential loss-producing tions due to occupational mine and safety problems. You also be involved in the develment of practical programs to went and control these potential

he physical sciences, mathetics and management techniques th special emphasis on the meepts of occupational hygiene dafety engineering are topics modered in this program.

Umission Requirements

ano Secondary School Gradua-

ade 12 English, grade 12 technitoracademic mathematics adaminimum of 2 credits in any arbination of senior level science adprogram related senior level arbinal courses

bbOpportunities

As a graduate of Safety Engiing Technology you may find a allenging and rewarding career various industries such as ing, forest products, petromical, construction and manucung. Opportunities also its within government agencies, sty associations and labour ranizations. Possible positions clude safety coordinator, loss introl analyst and accident vestigator.

Safety coordinators are actively solved in ensuring the health ad safety of workers on and the job. This position requires arent knowledge of health a safety legislation and the abilyh apply this knowledge to teveryday work situation of all aployees.

Curriculum	A REAL PROPERTY AND A REAL	
Semester 1	(27 hours/week)	Credit
altered in parts	Mathematics 1	4
Al Internation	Communications 1	4
Column Invest	Mechanics	4
and set the	Manufacturing Processes 1	4
10	Mechanical Technical Drawing	4
	Total Loss Control	4
	Statistics	3
Semester 2	(25 hours/week)	
a such hannal	Mathematics 2	4
ALCONT IN CASE	Communications 2	4
True Lord and	Statics	4
	Fortran Programming for Ind. Eng.	4
	Fire Protection	4
in minist	General Studies (2)	6
Semester 3	(27 hours/week)	tim the inighton
	Occupational Health (Chemical Agents)	4
	Electrical Controls 1	3
	Basic Strength of Materials	4
	Manufacturing Processes 2	4
	Plant Layout	4
	Physics (Heat, Light & Sound)	3
	General Chemistry 1	4
Semester 4	(25 hours/week)	1
	Calculus 1	4
	Industrial Security	3
	Occupational Health (Physical Agents)	4
	Industrial Organization & Management	4
	A.V. Techniques	4
	Process Industries & Plant Safety	2
-	Stress Analysis	4

INDUSTRIAL PROGRAMS Loss control analysts are instrumental in reducing costs, improving working conditions and thus maximizing the profits of a particular industry. This ultimately benefits the consumer since the products produced are of better durability, reduced hazard, and lower prices.

Accident Investigators are able to use technical experience and knowledge to investigate causes of accidents. Recommendations are then made that help to prevent similar incidents in the future.

Field Trip

• Every second year a safety engineering field trip is taken through Ontario. The trip is optional but strongly recommended. The College provides transportation but students pay for food and accommodation. Optional projects are provided for students who do not participate in the field trips.

Semester 5	(22 hours/week)	Equal
	Computer Applications	3
The Part of the L	Operations Research	4
1000	Product & Public Safety	4
	Environmental Health	4
1	General Studies	3
	Industrial Psychology	4
Semester 6	(23 hours/week)	1.1
12 N. 18 T. 19	Project Management	4
	Occupational Health (Lifestyle)	4
1.15	Elements of Accounting	4
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Industrial Economics	4
met i ren	Labour Relations	4
1	Safety Program Development	3

INDUSTRIAL PROGRAMS

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記録が神し

Electromechanical Engineering Technician

with Campus

wrsemesters beginning september and January each

Asan Electromechanical meering Technician you will be wied in testing and evaluating performance of machines frontrol systems that use inulic, pneumatic, mechanical, trical and electronic power as er energy source. You may sprovide advice on the mainteare of complex equipment mutol systems, analyse technical mems involving fluid power sigment and plans, and, install sdinspect the installation of an equipment in a variety industries.

Sudents may be required to increase as lab manuals or other items applied by the College.

Minission Requirements

ndiploma

ade 12 English, grade 12 technilor academic mathematics animum of two credits in any mbination of senior level science ad program-related technical parses

attricity, physics and/or machine apat a senior level are strongly commended

hOpportunities

Electromechanical Technicians demployment in different actes of industry that use comscontrol systems including: dipower, electrical, electronic dimechanical components. In training and knowledge will be you to work in component sprograms, system installalechnical services, technical s, and in plant maintenance

Curriculum	Concession of	
Semester 1	(23 hours/week)	Credits
100	Mathematics 1	4
1 Station of	Communications 1	4
Marriel and	Mechanics	4
1	Manufacturing Processes 1	4
The state of the s	Mechanical Technical Drawings	4
	Machining Processes	3
Semester 2	(26 hours/week)	all and and a
NAMES OF THE	Mathematics 2	4
in the same	Communications 2	4
and the second	Statics	4
and the second second	Fluid Mechanics	4
And the second second	General Studies (2)	6
	Computer Programming	4
Semester-3	(26 hours/week)	and the second second
Comestite and	Kinematics of Machines	3
and the second	Mechanical Power Transmission	4
	Basic Strength of Materials	4
min the -	Industrial Hydraulics	4
	Manufacturing Processes 2	4
We are the	Logic 1	4
1.4	Electrical Control 1	3
Semester 4	(27 hours/week)	
	Microcomputer Control 1	3
and the second	Stress Analysis	4
	CAD 1	3
the second second	Industrial Pneumatics	4
a second second	Fluid Power Circuits 1	4
100	Numerical Control 1	3
	General Studies	3
	Material Sciences	3



526

Electromechanical Engineering Technologist

North Campus

Six semesters beginning September and January each year.

Upon successful completion of the four semesters of the Electromechanical Engineering Technician training you may be eligible to continue for two additional semesters to complete the Electromechanical Engineering Technologist program. During the fifth and sixth semesters you will have rounded out your knowledge by studying complex systems involving automation, microcomputers, robotics, CAD/CAM and their applications to industry.

Students may be required to place refundable deposits on such items as lab manuals or other items supplied by the College.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- grade 12 English, grade 12 technical or academic mathematics
- a minimum of 2 credits in any combination of senior level science and program-related senior level technical courses
- electricity, physics and/or machine shop at the senior level are strongly recommended
- Note: in order to continue into third year of the Electromechanical Engineering Technology program, students must meet the requirements for the Electromechanical Technician diploma with a minimum grade point average of 75% (70% with permission).

Curriculum

For first four semesters see 525

(27 hours/week)	Credit
	3
	4
	4
	5
	3
	4
Electromechanical Controls 1	4
(21 hours/week)	
Calculus 1	4
Microcomputer Control 2	4
Machines Design 2 (CAD 2)	3
Automation Systems	4
Thermodynamics	3
Electromechanical Controls 2	3
	(21 hours/week) Calculus 1 Microcomputer Control 2 Machines Design 2 (CAD 2) Automation Systems

Job Opportunities

As an Electromechanical Engineering Technologist, you will be involved in the design of automation systems and their control functions, in sales, in maintenance or in consulting. The actual opportunities are as varied as the number of industries who would use your skills.

You may enjoy challenges in the sales of major fluid power systems, assisting in the design and operation of computer controlled manufacturing systems: or supervision in various departments of manufacturing or service companies, using high technology robotics and CAD/CAM (Computer Aided Design/Computer Aided Manufacturing) Systems.

MECHANICAL PROGRAMS



市場市市

単純い

Manufacturing Engineering Technician

orth Campus

wrsemesters beginning tember and January each

Manufacturing Technicians ride how a product is to be manstured, what types of machines pbeused, the kinds of matesrequired, and the sequence of induction and methods. As a stuate of this four-semester proyou will be able to develop manufacturing procedures mans produced by machining nesses, presswork methods and estics technology, and then bsequently assembled into a -vuct. Skills are developed rough practical experience in a viem production laboratory supped with computer controlled rupment such as 5 axis CNC schining centres and CAD/CAM thology.

Idmission Requirements

mio Secondary School Graduam Diploma

ade 12 English, grade 12 technior academic mathematics animum of 2 credits in any comration of senior level science al program-related senior level chnical courses

atticity, physics and/or machine opat the senior level are strongly commended

WbOpportunities

Manufacturing Technicians are solved in the scheduling, coordition and cost analysis of ongoing aufacturing, and the emergency dpreventative maintenance mems of manufacturing opera-

foubleshooting and project Possibilities in process plantool design and quality arclare also included as part of Manufacturing Technician's A graduate of this fourester program may be eligible

Curriculum	(Conservation)	
Semester 1	(26 hours/week)	Credits
files in the	Mathematics 1	4
and the second	Communications 1	4
Mary Mary Mary	Mechanics	4
	Manufacturing Processes 1	4
	Mechanical Technical Drawing	4
and specific	Machining Processes	3
The start in the	Metrology	3
Semester 2	(27 hours/week)	and a
ALC: NOTE: N	Mathematics 2	4
in the second	Communications 2	4
- Malan Pretty	Statics	4
a state of	Basic Tool & Fixture Design	4
1 - FUEL	Time Study 1	4
25 Blues	Computer Programming	4
	General Studies	3
Semester 3	(27 hours/week)	
Real Property	Mathematics (Dynamics)	4
The second	Basic Strength of Materials	4
- A Participation	Industrial Hydraulics	4
	Manufacturing Processes 2	4
Section 1	Die Design 1	5
	CAD 1	3
S-Road R	Electrical Control 1	3
Semester 4	(24 hours/week)	
1.000	Numerical Control 1	3
	Manufacturing Cost Estimating	3
	Manufacturing Process Planning 1	5
	Industrial Pneumatics	4
	General Studies	6
	Motion Study	3



to enter the fifth semester of Manufacturing Engineering Technology. Successful completion of the fifth and sixth semesters allows students to graduate as a Manufacturing Engineering Technologist.

Manufacturing Engineering Technologist

North Campus

Six semesters beginning September and January each year

Upon successful completion of the four semesters of Manufacturing Engineering Technician's training, you may be eligible to continue for two additional semesters to complete the Manufacturing Engineering Technology program. These additional semesters enable you to study complex problems in specialized manufacturing processes and costing.

Admission Requirements

- Ontario Secondary School Graduation Diploma
- grade 12 English, grade 12 technical or academic mathematics and a minimum of 2 credits in any combination of senior level science and program-related senior level technical courses
- electricity, physics or machine shop at the senior level are strongly recommended
- Note: in order to continue into third year of the Manufacturing Engineering Technology program, students must meet the requirements for the Manufacturing Engineering Technician diploma with a minimum grade point average of 75% (70% with permission).

Curriculum

Semester 5	(23 hours/week)	Credits
	Statistics	3
	Numerical Control 2	5
	Plant Layout	4
	Electrical Control 2	3
1000	Production & Inventory Control	4
	Manufacturing Process Planning 2	4
Semester 6	(23 hours/week)	C. BA
	Calculus 1	4
A ST ST ST	Material Sciences	3
	Quality Control	3
	Technical Project (Field)	6
1. S. H. K. A.	Project Management	4
	Computer Integrated Manufacturing	g 3
		The local diversion of

Job Opportunities

As a key person on an engineering team, you may become involved in the development, implementation and debugging of production processes. You may also become part of a support group which deals with inventory control, plant layout, estimating and quality control. Employment alternatives include Process Technologist, Manufacturing Supervisor and Cost Estimator. Process Technologists initiate and coordinate the design and purchase

of equipment and tooling that would efficiently produce the preent product line and new lines of the future. Manufacturing supersors are part of a team involved in troubleshooting, design, and development of people skills that meet the demand of current technology. Cost Estimators act rately "guesstimate" the manuf turing and production costs of a new part or product that is being considered for the consumer market. These skills will be taught using a number of sophisticated CAD/CAM systems.



Mechanical Engineering Drafting Design Technician

forth Campus

with semesters beginning september and January each

As a graduate of the Mechanical Dafing Design) Engineering schnician Program you are repared to apply design principles of practices to a variety of schneering and mechanical design rolems.

This four-semester program wides the background and skills design and develop layout wings and prepare working wings on the newest CAD/ AM systems and determine specitions and materials for the enufacture or performance of a semonent, assembly or a major press installation.

Idmission Requirements

mino Secondary School Graduam Diploma

ade 12 English, grade 12 technidoracademic mathematics adaminimum of 2 credits in any mbination of senior level science ad related senior level technical acres

ating and physics at the senior and are strongly recommended

Woopportunities

È.

Graduates may expect to find soloyment in areas related viafing and design, testing, smaling, mechanical equipment allation, consulting, and whinery sales. They will be aliar with the latest computer asted design drafting techniques ich many companies seek.

Curriculum	madaming an	Harmo And
Semester 1	(24 hours/week)	Credits
Distribute	Mathematics 1	4
Typt makes	Communications I	4
The second	Mechanics	4
The state of the second	Fundamentals of Manufacturing Processes	4
	Mechanical Technical Drawing	4
	Computer Programming	4
Semester 2	(26 hours/week)	All part and the store of
	Mathematics 2	4
	Communications 2	4
	Statics	4
	Mechanical Design & Drafting 1	8
	General Studies (2)	6
Semester 3	(24 hours/week)	A STATE OF THE STATE
	Kinematics of Machines	3
a main resident and	Basic Strength of Materials	4
	Mechanical Power Transmission	4
	Mechanical Design & Drafting 2	7
a subscription	Electrical Control 1	3
and the second second	CAD 1	3
Semester 4	(26 hours/week)	
	Fluid Mechanics	4
	Mechanical Design & Drafting 3	6
	Numerical Control 1	3
	Stress Analysis	4
	Material Sciences	3
it is a print of the	General Studies	3
	CAD 2	3
		the second se

MECHANICAL

530

Mechanical Engineering Tool & Die Technician

North Campus

Four semesters beginning September.

Mechanical tool and die technicians are able to design and draw tools, prepare manufacturing processes, evaluate methods of production, materials, manufacturing costs and tool performance and use CAD/CAM equipment.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- •grade 12 English, grade 12 technical or academic mathematics
- a minimum of 2 credits in any combination of senior level science and program related senior level technical courses
- drafting, physics and machine shop at the senior level are strongly recommended

Job Opportunities

As a tool and die technician there are numerous areas of employment in manufacturing industries including automotive and aeronautical and consulting engineering firms, and the tool design offices of specialized tooling companies. Entry jobs are at a junior level but after a few years of experience graduates become die designers and cost estimators or process analysts. Die designers are responsible for the layout and detailing of dies, determining production sequence and cost. Cost estimators prepare and detail the manufacturing cost requirements for new or modified parts for a manufacturing facility. Process analysts are involved in developing the tooling and operational sequence for continuous line manufacturing. This type of manufacturing includes the production of engines, electric motors, consumers products and military systems.

	AND AND AND AND AND	1.1
Curriculum		
Semester 1	(23 hours/week)	Credits
	Mechanics	4
1.1.1.1.1.1.1.1	Manufacturing Processes 1	4
	Mechanical Technical Drawing	4
	Machining Processes	3
	Communications 1	4
	Mathematics 1	4
Semester 2	(27 hours/week)	
	Statics	4
	General Studies	3
	Tool & Fixture Design	8
	Communications 2	4
	Mathematics 2	4
	Computer Programming	4
Semester 3	(26 hours/week)	State Providence
	Mathematics (Dynamics)	4
	Basic Strength of Materials	4
	Manufacturing Processes 2	4
	Die Design 1	5
	Metrology	3
and the second	CAD 1	3
	Electrical Control I	3
Semester 4	(24 hours/week)	
and the second	Die Design 2	6
	Manufacturing Cost Estimating	3
	Numerical Control I	3
	Material Sciences	3
	CAD 2	3
AN IN STREET	General Studies (2)	6

MECHANICAL PROGRAMS

Mechanical Engineering Numerical Control Technician

orth Campus

wisemesters beginning wiember and January each

Numerical Control is the most dem way of controlling producmachinery. In this program will learn to write and process from part drawings to ached tape, or DNC (direct merical control) to guide the Cequipment. You will learn to at the proper tooling and wing required for machining rous different parts. You will to prepare manual and muter assisted programs on the st CAD/CAM systems for the advanced numerical control whinery, including five axis shining centres, but you will learn hands-on how to operate machines for program bugging and parts machining.

- Imission Requirements

n Diploma

de l2 English, grade 12 techni-Loracademic mathematics
kinimum of 2 credits in any comtion of senior level science
kipogram related senior level
hical courses

availies and/or machine availies senior level are strongly commended

W0pportunities

Iechnologically-modern compaare looking for qualified Coperators and programmers. **e industries include aircraft aerospace, automotive, in lural machinery, plastics, inbber manufacturing, instrutation, and service industries. chine-tool sales and servicing, CNC programming services additional areas.

date dimensions from drawto numerical control machines rare tooling and fixturing mation for the shops. As a

Curriculum		
Semester 1	(23 hours/week)	Credits
A man his	Mathematics 1	4
s non-tunes	Communications 1	4
and the first of	Mechanics	4
CELEVIN R	Manufacturing Processes 1	4
ELECTED A	Mechanical Technical Drawing	4
	Machining Processes	3
Semester 2	(27 hours/week)	
	Mathematics 2	4
	Communications 2	4
	General Studies	3
	Statics	4
and the second	Numerical Control 1	4
and the second	Basic Tool & Fixture Design	4
mail and	Computer Programming	4
Semester 3	(25 hours/week)	a faire a
and the	Mathematics (Dynamics)	4
al to a second	Numerical Control 2	5
1. No. 10	Manufacturing Processes 2	4
1000	Metrology	3
	CAD I	3
A. control of	General Studies	3
Long -	Electrical Controls 1	3
Semester 4	(25 hours/week)	
	Numerical Control 3	6
The second	Manufacturing Cost Estimating	3
	Material Sciences	3
	Manufacturing Processes and Planning 1	5
	General Studies	3
	CAM 1	5

supervisor you would set up the machine, check the tape for correctness and accuracy,

make recommendations to improve productivity. As a sales representative you would assist the sales department with technical know-how, train operators and programmers for customers, and prepare sample programs for demonstration. MECHANICAL PROGRAMS

Queensway B Campus

532

Four semesters starting September

As a student in the Small Craft & Marine Technology program, you will acquire a broad technical and practical understanding of small craft, their design, construction, operation, maintenance and repair. You also become familiar in the practical business and managerial aspects of a variety of yachting support and service activities such as: marina and yacht club operation, boat building and repair, wholesale and retail marketing of small craft and their equipment, yacht brokerage and charter fleet operation. The program structure is flexible, taking into account the needs of both fulltime and part-time students many of whom bring with them previous business, professional, trades, craft and seamanship experience.

Admission Requirements

- •Ontario Secondary School Graduation Diploma
- grade 12 English

Job Opportunities

- grade 12 technical or academic mathematics credits
- a minimum of 2 credits in any combination of senior level science and program-related senior level technical courses with passing grades

A great variety of occupations exist for graduates of the Yachting Studies program. Boat building, boat maintenance and repair, wholesale, retail outlets, marina operations, club management, yacht brokerage and charter, federal, provincial, and municipal agencies, sailing schools/community courses in on-water activities.

MARINE TECHNOLOGY PROGRAMS

Compastor 1	(25 hours/week)	Credits
Semester 1	Communications 1	4
	Mathematics for S-C & MT	4
	Seamanship 1 Power & Sail	3
	Yacht Maintenance & Repair 1	8
	Marina/Yacht Club Design, Const. & Oper. 1	3
	Sails & Rigging	3
Semester 2	(24 hours/week)	
	Communications 2	4
	General Studies	3
	Marina/Yacht Club Design, Const. & Oper. 2	3
	Yacht Maintenance & Repair 2	8
a taxa a	Navigation	3
1.1.1	Electrical Circuits & Applications	3
Semester 3	(27 hours/week)	-
	General Studies	3
	Seamanship 2-Power/Sail Yacht handling	3
Village	Yacht Design 1	3
1.27	Small Craft Electronics	3
main thous	Gas & Diesel Motors for Yachts	4
Dente May 11-	Boatbuilding & Repair 1	8
Langue and	Marine Contracts, Insurance & Taxation	3
Semester 4	(24 hours/week)	Service -
and the second	General Studies	3
A Charles	Yacht Design 2	3
	Outboard Engines & Marine Drive Trains	4
	Boatbuilding & Repair 2	8
	Standard Operating Procedures & Office Routine	3
the second second	Sailing School, Charter, Fleet	

offered.

Automatic Machining Setter Operator

ensway B Campus

sweeks beginning every konday

This program is designed to pure you for employment as an anistic screwmachine operator. is a very sophisticated whine tool that is used in most sustries such as auto, aero, appliance industries. You will working on both single and ti-spindle machines. These achines are used to produce (cylindrical) components of shapes and sizes at speeds the few machines can match. by are controlled by the use trams, gears and cutting tools hmust be precisely set reach part produced. The screwwhine operator is always in satdemand by this rapidly growzindustry. The work week is seally five days, forty hours, in the possibility of shift work. los screwmachine shops are isy, and your hands may get dirty adoily. The job is very creative at rewarding.

Curriculum

Program Outline

the second second		
	Measuring Instruments, Quality Control, Blue Print Reading	
	Single Spindle Machine Orientation and Set-up (construction, lubrica- tion, etc.)	
14 al	Multiple Spindle and set-up (Acme Gridley & Davenport machines)	1
and a little	CNC Screw Machine set-up	11

Admission Requirements

• pretests in communications and mathematics

- admissions interview
- a working knowledge of mathematics, including whole numbers, fractions, decimals, percentages, and measurement

• you will also be required to be able to speak, read, and understand the English language without difficulty

Job Opportunities

Graduates of our training program have found employment in the screwmachine industry as single and multi-spindle operators, and turret lathe operators. In addition, with some on-the-job experience after graduating from the program, you may become a screwmachine setter or cam and tool designer.

and something of

SHORT PROGRAMS **Cabinet Making**

Queensway A Campus

48 weeks starting any Monday

Graduates of the Cabinet Making program will have studied the design and construction aspects of commercial and residen tial woodwork. They will have mastered the necessary skills for identifying, manufacturing and using the various wood joints, and will also learn how to use hand or power tools to produce them. They will also acquire a knowledg of wood finishes, their application by hand and mechanical means and a knowledge of the natural and man-made materials used in cabinet making.

Admission Requirements •admissions interview

- pretests in communications and mathematics to be conducted at the college, at least one week prior to the student's proposed start date
- mathematical facility with whole numbers, fractions, decimals, percentages and measurement

• a good command of conversational English is also required.

Job Opportunities

Employment opportunities for men and women include design, construction, finish, installations, repair and modifications to commercial and residential cabinets, construction, refinishing and repair of furniture, installation of fine quality interior residential and commercial building woodwork and the interior finishing of sail and power boats and motor homes.

Curriculun	n
Program O	
	Veneer (kinds, applications, cutting, etc.)
1. A.M.	Plastic Laminates (composition, uses, grade, etc.)
	Hand Tools (safety rules, measur- ing, maintenance, etc.)
	Fasteners and Sandpaper (nails, screws, etc.)
	Wood Joints (identification and fabrication)
	Portable Power Tools and Stationary Power Tools
chand	Hardware (identification and installation of cabinet hardware)
Second S	Cabinet Construction
	Finishing (staining, filling, protection)
1 Section	Drafting (basic principles)
	Special project: produce a project from specifications
Vite Lat	Life Skills

SHORT PROGRAMS

Digital Equipment and Systems Electronics Certificate

. .

Queensway A Campus

_ Curriculum

48 weeks is the average (prepared learning packages allow variable pace)

There is a growing need for digital and microprocessor-based electronic systems. Most electronic systems developed in the 1980's contain digital circuits. Some examples are microcomputers, automotive electronic systems, televisions and data communication systems.

The basic electronics of this program is common to that in the Radio and TV Receivers and Mobile Radio Communications program, but the latter part of the program specializes in varying types of digital systems.

Admission Requirements

pre-admission interview pretests in communications and mathematics

basic mathematical skills such as adding, subtracting, multiplying and dividing of whole numbers and fractions. Skills in basic algebraic expressions, and ratios will also be required.

ability to effectively read and comprehend English

Program Ou	Itline
The Plant	Direct current circuits
Water Bloop	Alternating current circuits
A LINE A	Solid state devices
CARA DIMENTAL	Electronic circuits and applications
La	Basic digital logic circuits
	Microprocessors
and the second	Analysis of microprocessor based systems
in table table	Troubleshooting and repair of microprocessor based systems

Job Opportunities

Graduates may expect to work for manufacturers, vendors and users of digital equipment as troubleshooters. maintainers, and installers.

> SHORT PROGRAMS



And the Andreas Constraint States of Section 1999 (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (

CONTRACT OF CONTRACT

Drafting

Queensway B Campus

This is a continuous-intake 40-week program using prepared learning packages. Teachers are available on a one-to-one basis.

This program is designed to prepare you for employment in either the mechanical or architectural drafting field. Once the mandatory objectives are completed, the students may undertake optional objectives (such as Jig & Fixtures, Structural Steel, Process Piping, Survey, and Electrical Drawings).

Most of the student's time is spent in practical drafting but time is given to drafting theory, mathematics (strength of materials) and an introduction to computers and Computer-Aided Drafting Systems. For more information call 252-9441.

Admission Requirements

- pre-admission interview
- pretests in communications and mathematics
- working knowledge of mathematics including signed numbers,

Curriculum

Program Outline

a secolar de	Make multi-view drawings
	Make mechanical assembly and detail drawings
12.000	Select ferrous and non-ferrous metals
in the second	Make architectural working drawings
1	Mathematics (strength of materials)
The second	Introduction to Computers and computer-aided drafting systems
Contraction of the second	Life skills

square root and powers, substitution, equations, formulas, graphing and geometry

 good command of English (written and verbal) is also required

 physical requirements for drafting include: sitting, reaching and handling

Job Opportunities

After graduating, you may find opportunities for employment in the manufacturing industry,

architectural offices and engineering offices. Since the initial training for all draftsmen is the same, a transfer to another area of the work is possible with additional training and experience. Transfer could be to any one area of architectural, electrical, mechanical. structural or technical drawing. A forty hour, five day work week is usual. With experience and good leadership qualities, you may advance to supervisor draftsman.

537 **PROGRAMS**

SHORT

Drafting Refresher

Queensway B Campus

This program is of particular interest to draftsmen who have been away from the board for some time and wish to return to their former occupation. It will also be useful to draftsmen and engineers from other countries, to acquaint

themselves with Canadian methods and standards prior to obtaining employment. An introduction to Computer Aided Drafting systems will also be included in the program. Call 252-9441 for more information.

三王王王

Industrial Instrumentation Mechanic

queensway A Campus

forty weeks beginning any yonday

The Industrial Instrumentation Wethanic program will enable to to function in today's technical ad automated industries. Some the subjects included in this averam are mechanics, electronis, physics and chemistry. Gradutes from this program will exhibit the ability to calibrate, troublesoot, repair and maintain instruacuts for process measurement ad control.

Admission Requirements

a

An admissions interview, as well as relests in communications and rathematics, to be conducted sthe College, is required at least we week prior to your proposed sarting date. You should have avorking knowledge of mathematis, including substitution, equaaons, formulae, graphing, and rigonometry.

Curriculum

Program Outline

	Recording to ethnicity's parts. Company or proposed
the second second	Pressure Measurement
A Province	Flow Measurement
	Level Measurement
	Temperature Measurement
	Electronics
	Mechanical Practice
and the second	Calibration Principles and Tech- niques
Contract (2004)	Pneumatic Instruments Theory and Applications
Cross & Investor Company	Electronic Instruments, Theory and Applications
1. C. D. C. M. C. M. C.	Automatic Control Theory and Applications
han an an an	ISA Symbols and Process and Instrument Diagrams

Job Opportunities

This occupation requires that a person enjoy dealing with physics and electricity. It requires logical thinking, numerical ability, and the ability to understand the principles of instrumentation construction and operation, and the skill to apply appropriate techniques for installation, repair and adjustment. The prospect for employment is excellent. There is an increased need for well-trained men and women to maintain, service, operate, and sell instrumentation equipment. Graduates of this program will be in demand in a great variety of industries. Duties may include maintenance, repair, calibration and troubleshooting.

Transfer is possible to other positions within the occupation requiring similar skills or with limited additional training such as analytical instrumentation with oil companies and government laboratories.

SHORT PROGRAMS

Industrial Maintenance Mechanic (Packaging), (Millwright)

Queensway B Campus

Length of program varies according to student's pace. Teachers are available to students on a one-to-one basis (approximately 48 weeks)

We offer two programs: Industrial Maintenance (Millwright) Mechanic and Packaging Machine Mechanic.

These programs share a common core. The Millwright program is a regulated trade and so this program can be accessed by apprentices. The Packaging Mechanic program is due to be regulated August 1984 and will also be accessible to apprentices. Those who are not already apprenticed can take the courses as fee paying students. (The fact that you have completed the in-school portion can be a benefit to some employers.) Both non-regulated programs can be sponsored by C.E.I.C. or U.I.C. agencies.

Length of program varies according to student's pace. Teachers are available to students on a one-to-one basis (approximately 48 weeks). Students are trained to set up and adjust machines, change tooling, maintain and repair, overhaul, service the various machines used in the service, supply and process industries. This program specializes in various packaging machines used in filling, wrapping, canning, and bottling plants. Training is provided in hand and bench tools, machining, welding, pneumatics and hydraulics, electrical controls and mechanical drives, including repair, troubleshooting, and preventative maintenance.

Admission Requirements

pre-admission interview

SHORT

PROGRAMS

- pretests in communications and mathematics
- working knowledge of mathematics including equations and formulae
- good command of English (written and verbal)

Curriculum

Program Outline Common core topics:

Safety	
Measuring tools	in an
Bench tools & fabrication	
Hand tools & rebuild techniques	
Blueprints & sketching	
Welding & brazing	
Soldering	
Power transmission components	
Lathes & mills & grinders	
Cams & levers & timing	13.3
Conveyors	1.0.12
A.C./D.C. electricity	
Electrical controls	
Pneumatics/hydraulics	Ser.
Industrial Maintenance (Millwrigh	t)
Overhaul & Maintain machines	
Try out, test & run machines	
Troubleshoot machines	
Rigging & installation	
Packaging Machine Mechanic	
Packaging machine controls	
Machine set-up	
Machine maintenance	

Interests and Skills

- ability to understand the principles of mechanics to apply them in the set-up, repair, and maintenance of machine parts
- knowledge of the principles of mechanics is a prerequisite for this program
- ability to carry equipment up to 30 pounds in weight, as well as good eyesight and the ability to see colours distinctly

Job Opportunities

Industrial Maintenance Mechanics find employment working on a variety of equipment such as pumps, gear boxes, clutches, and mechanical items. Duties include troubleshooting mechanical problems in these devices.

Packaging Machine Mechanic find employment in the food, pharmaceutical, beverage, and chemical industries, where you will set up and adjust packaging machines, change tooling, and maintain, repair and troubleshow mechanical, electrical, and fluid power on the various packaging machines used in these fields.

Machine Shop Practice

Bensway B Campus

forty Weeks starting every Monday

This forty-week program the student to demonstrate mpetence in machine shop fry practices and procedures and in industrial shop situations, elect and correctly use hand mis safely according to instrucons and/or print specifications, elect and correctly use appropriate easuring tools to measure within rebal and/or print specifications, dentify and select ferrous and poferrous metals for their speciadapplication in machining work teres, safely set-up and operate within print specifications any of a enery of machine tools such as whes, drill presses, milling achines and grinders, read and merret blueprints and operational equence sheets.

Admission Requirements imissions interview

relests in communications and thematics to be conducted at the College, at least I week prior to student's proposed start date working knowledge of mathematincluding whole numbers. rations, decimals, percentage, seasurement, ratio and proporion, signed numbers, square root and power

good command of English written and verbal) is also Equired

Curriculum	ATURA CANADA	P. resconcept
Program Outlin	ne	Highlight Haugh
and the second	Safety	Million I and
the state with the state	Engine Lathe	Do the all station of
	Measurement	and the second s
All states and the	Milling Machine	And many own out is
and the second	Hand Tools	CONVERSION OF
College I low	Surface Grinder	and the strength of the state o
Constant Section 2	Cutting Tools	ALC: NOT STREET
1. 1. 1. 1. 1. 1.	Blueprint Reading	And Real Production
	Drilling Machines	A STREET, SALES STREET, SA
2.10 L.M.	practice on the above equipment	Handbird Printer of
and any solar bo	safe methods to set up and operate each tool	
ALS VALUE	select appropriate tool and follow verbal/print specifications	and the second
	Life Skills: discuss and develop cultural, educational, political, eco nomic and social skills, concepts and values in relation to self, family job and community.	

SHORT PROGRAMS

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Marine and Small Powered Equipment Mechanic

Queensway A Campus

This is a continuous-intake 40-week program using prepared learning packages. Teachers are available on a one-to-one basis.

This program is designed to prepare you for employment as a mechanic for such things as two and four stroke engines, recreational vehicles, marine propulsion units, lawn and garden equipment and chain saws. You will learn how to repair and refinish fibreglass, use service manuals and parts books, use special service tools, weld, cut and braze metals, and carry out basic machining procedures.

Admission Requirements

• After pretests in communications and mathematics (conducted by the College), you will attend an admissions interview at least one week prior to your proposed starting date. You should have a working knowledge of mathematics, including whole numbers, fractions, decimals, percentages and measurement. You should also be able to speak, read, and understand the English language without difficulty.

Job Opportunities

Opportunities exist in marine equipment dealerships, marinas, sports equipment and rent-all stores, construction equipment dealerships, lawn and garden wholesalers, retail outlets, equipment service centres, golf courses, hardware and department stores. With some experience in the field after graduation, you may advance to service manager, manufacturer's service representative, or you may wish to go into business for yourself.

Curriculum

Program Outline Identify components, construction features and operation principles of 2 and 4 stroke engines. Identify operation principles of carburetors, fuel pumps and supply systems (repair and adjust). Explain operation of magneto, CD and battery ignition systems (repair, adjust and maintain). Identify the nature, type, purpose and application of lubricants. Parts and service manuals-determine part numbers, prices and service procedures. Identify and properly use hand and power tools and test equipment. Repair and refinish metal and fibreglass components and equipment. Identify and properly use hand operated machining tools, accurately read and apply machine measuring tools. Diagnose faults in, adjust, repair, disassemble and rebuild mowers, garden tillers, snow blowers, garden tractors, chain saws, outboard motors, snowmobiles, boat trailors, marine rigging and wiring. Set up and operate oxyacetylene welding and cutting equipment. Explain the fundamentals of electromagnetism, inductance, capacitance, electrical circuitry and the . operation of small AC and DC motors and generators.

Work Environment

• A normal five-day, forty-hour week is required. Weekend shift work may be included. Frequent physical activities include reaching, stooping, kneeling, lifting (up to 100 pounds) in an indoor/outdoor environment. For more information call 252-9441.

PROGRAMS

A R. R. S

Mobile Radio Communications Electronics Certificate

Queensway A Campus

greeks is the average grepared learning packages grow variable pace)

Areas that use mobile radio ammunications are police departreats, security companies, fleet gerators, taxi and service equipent dispatching. The use of abile radio communications is sto growing in the field of congration.

The basic electronics of this mogram is common to that in the adio & T.V. Receivers and bigital Equipment and Systems mogram, but the latter part of the mogram specializes in mobile adio systems of varying types. You will learn to install, troubleadiot, repair and align 2-way bid state mobile radio equipment.

Curriculum	Contract/200		
Program Outlin	ne		
20.00 2010	Direct current circuits		-
The second second	Alternating current cire	cuits	Ser Line has
La sur	Solid state devices	Tarmen Pr Westmer	Safet in the
at a summer	Electronic circuits and	applications	THE REAL PROPERTY AND
See See Us	Basic digital logic circu	uits	HUNK- MARTIN
and the set of the	Microprocessors	Contraction of the second	in the two where
in prime and	Mobile radio receiver s servicing	systems and	initia uni
an benta an An an an an an	Mobile radio transmitte and servicing	er systems	ne rio ama.
States and the	Communications anten	nas	1.14.178

Admission Requirements

- pre-admission interview
- pretests in communications and mathematics
- basic mathematical skills such as adding, subtracting, multiplying and dividing of whole numbers and fractions. Skills in basic algebraic expressions, percentages and ratios will also be required.
- ability to effectively read and comprehend English

Job Opportunities

You may expect to work for manufacturing companies of radio service systems and commercial VHF and UHF FM systems. You may also find employment with users of this equipment such as police departments, taxi companies, construction companies, telephone companies, and public utilities.

> SHORT PROGRAMS

Queensway B Campus

48 weeks starting every Monday

Graduates of this 48-week program are trained in the modern technological methods of numerical control machine tool operation, as well as in the writing and editing of manual-part programs. Practical skills learned include: machine set-up, tape preparation, cutter diameter and length compensation setting, and on-site modification of existing programs. The program uses prepared learning packages (similar to those used in correspondence programs) with the maximum of personal interaction between faculty and students. This allows students maximum flexibility in their rate of progress and in individual timetables.

Admission Requirements

- pre-admission interview
- pretests in communications and mathematics
- candidates must be functioning at a Grade 10 (BTSD Level 3) for direct entry. Candidates not achieving the admission requirements will be prescribed a College Preparatory program to upgrade their academic skills to the program entrance requirements.

Interests and Skills

SHORT PROGRAMS • A person interested in this occupation must have a basic knowledge of conventional machine shop operations and the ability to conceptualize the operations related to the programming and control of machine tools. The occupation requires an individual who is alert, perceptive and able to deal effectively with both tangible and intangible problems. Numerical ability and above average communication skills are also essential.

Curriculum

	Learn basic machine shop skills with emphasis on turning, milling and drilling.
	Learn Numerical Control machine basic preparation (lubrication, set-up and start-up).
	Solve course related mathematical problems.
	Learn Numerical Control coordinate systems, codes, technology, and programming modes.
	Learn Numerical Control machine operation and production of parts using instructions supplied by programmer.
	Dry run, debug, and troubleshoot new programs on numerical control machines
	Other topics
1.000	machines

Job Opportunities

Progressive, technologicallymodern companies are looking for well-trained operators and programmers. As these companies update their machinery, the Numerical Control Machine Programmer will be a vital member of their staff. Graduates can expect to work in industries such as production and jobbing shops, aircraft and aerospace, automotive, agricultural machinery production, plastic and rubber manufacturing, instrumentation, and service industries.

Graduates with a higher level of hands-on skill will find employment as operators and set-up persons. Those who excel in the programming area can become Numerical Control Machine Programmers and may advance into supervisory positions or into management. Additional training in computer programming and theory would enhance opportunities in Numerical Control (Systems) technology.

Generally, shops run the fiveday, forty-hour work week with rotating shifts. The potential candidate can expect a limited amount of physical activity, with the greater part of the job requiring mental alertness.

Financial Assistance

- Canada Employment and Immigration Commission (CEIC)
- This program is approved by the the CEIC. If you qualify for sponsorship the cost of your tuition fees will be paid by the CEIC and may include a weekly training allowance. For further information and details on sponsorship contact your nearest Canada Employment Centre or the Registrar's Office of Humber College at 252-9441.

三十二十二

Precision Instrument Mechanic

Autensway A Campus

Approximately 48 weeks seginning any Monday.

Based on individualized instructen, the program provides training the practice of precision instruent manufacturing, service ad sales. Graduates will be able to instruct and modify components ad assemble, repair, adjust and test precision instruments.

The program emphasis is on panual and machine skills such as real cutting, forming and turning, addering, welding and brazing as pplicable to precision instrument rquirements. Included is a rechanics industrial electronics rogram and introduction to sheet ada processes, woodworking, adustrial instrumentation, photogaphic equipment repair and atomatic screwmachine operatons.

The flexible timetable, continuus intake and the wide range of abjects makes this program aideal basic and retraining vehide forpersons who like interesting whical work with varied opporunities for employment.

A Camera repair option is valable.

CEIC sponsorship may be milable to qualifying individuals.

Admission Requirements

almissions interview

retests in communications and athematics to be conducted at the College, at least one week prior but student's proposed start date asic mathematical skills such as iding, subtracting, multiplying addividing of whole numbers and actions

tilk in basic algebraic expresions, percentages and ratios bility to effectively read and comrend English will be an importasset

10b Opportunities

Precision instrument mechanics windemand by manufacturing

Curriculu	in the second se
Program C	Jutline
Camera	Option – 18 weeks)
	General Studies
	Electric & Electronic Fundamentals
1-1 1100	Fabrication and Manufacturing Processes
Thom?	Precision Instrument Technology Fundamentals
-	Applied Precision Instrument Technology
	Photo Technology
	Overhaul Photographic Equipment
	Administrative Requirements
Precision	- 30 weeks)
100	Drafting Fundamentals
	General Studies
2018 (L.).	Industrial Instrumentation
and a	Electric & Electronic Fundamentals
	High Technology
100.900	Computer and Micro Processor Fundamentals
	Fabrication and Manufacturing Processes
1000	Automation & Robotics Technology
, mirana	Precision Instrument Technology Fundamentals
	Precision Instrument Services and Repair
	Applied Precision Instrument Technology
	Welding & Sheet Metal Technology
	Electrical Circuits & Applications

companies, commercial, transportation and communication concerns, government and research establishments who manufacture, import and sell, service or use complex, precision, electromechanical, electronic, optical or photographic devices. Typical instruments are microscopes, photographic apparatuses, and navigation and aircraft instruments.

Graduates move readily into a wide range of technical situations and will be involved in fine part and prototype manufacturing, equipment and systems assembling, analysis, quality control and repair work. There are more than 200 companies in Ontario alone involved in precision instrument work. SHORT

PROGRAMS

Radio and TV Receivers Electronics Certificate

Queensway Campus

48 Weeks is the average (prepared learning packages allow variable pace)

This program is designed to prepare you for employment in the electronics industry. You will apply theory and practice in basic circuit behaviour, solid state techniques, AM and FM radio, monochrome and colour T. V. You will also get experience on various types of test equipment used in the electronics service industry.

Admission Requirements

- pre-admission interview
- pretests in communications and mathematics
- basic mathematical skills such as adding, subtracting, multiplying and dividing of whole numbers and fractions. Skills in basic algebraic expressions, percentages and ratios
- ability to effectively read and comprehend English

Curriculum

Program Outline

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Direct current circuits
	Alternating current circuits
	Solid state devices
	Electronic circuits and applications
	Digital Circuits
1992	AM and FM receiver systems
	Television systems and servicing
	Basic digital logic systems
	Microprocessors

Job Opportunities

Since the emphasis in this program is on troubleshooting and repairing electronic equipment, you can expect to work for companies who manufacture, distribute, and service many kinds of equipment. Jobs include the repair of radios and television receivers, auto radios and audio equipment, cable T.V. equipment, closed circuit T.V. equipment, security systems, office copying equipment and industrial automated production equipment. Opportunities also exist as sales/ service representatives with electronic distributors. C

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Skills Update Electronic Certificate

SHORT PROGRAMS

Queensway A Campus

Specific short programs are set up to meet the objectives of individual students. Typical objectives could be meter reading, use of specific test equipment, component identification, assembly techniques, or soldering.

PREREQUISITE: Personal interview, by appointment, with Program Coordinator.

NOTE:

This program may be taken fulltime, evenings or day-time. This flexibility should appeal to shift workers, or employers who wish to release employees for a period of in-college training to upgrade their skills. Because you work at your own pace on prepared objectives the program length, the timetable, even the course content can be modified by you or your employer. CEIC sponsors some students in this program. Please contact your local office. Please note that graduates of this technical program are normally admitted into any related post-secondary technician technology program offered throughout the Technology Division.

Contact 252-9441 for registration information.

Welder Fitter

Queensway Campus

weeks starting every week

Graduates of this program are policient in fitting and welding re-fabricated cast and forged retal components, applying knowledge of the physical proprties of metal and the effects of ret, allowing for thickness, schining, and weld shrinkage. The student also learns metal roducts repair including dismaning, straightening, reshaping, and reasembling parts using a cutting proh, straightening press, and and tools.

Admission Requirements

admissions interview pressis in communications and mathematics, to be conducted a the college, at least one week prior to the student's proposed start tate

authematical facility with whole umbers, fractions, decimals, ercentages, measurement, ratio ad proportion 1good command of English (mitten and verbal)

Curriculum

A SA IN	Shielded Metal Arc Welding, Downhand
A second	Joint, Electrodes and Symbols
	Shielded Metal Arc Welding, Vertical up and overhead
-	Oxy-acetylene Welding, Downhand
niplina an	Oxy-acetylene Corner, Edge, Fillers, Butt Joints
	Tungsten Inert Gas Welding, Downhand
	Metal Inert Gas Welding, Downhand

Job Opportunities

Graduates may work in specialized welding shops or large and small general manufacturers in which welding is an integral part of production (i.e. construction and/or transportation)

> SHORT PROGRAMS

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Course Descriptions

Communications

Communications 1

This course develops the writing skills which will help students meet the requirements of both college and their chosen vocation. Emphasis is placed on mastery of basic research and writing techniques for clarity. There is also opportunity for continued development of reading comprehension.

Prerequisite: Language Skills or equivalent

Communications 2

This level emphasizes research and vocational planning. Students learn to present ideas clearly, concisely, and effectively both in writing and in speaking. At this level, style, form and creativity are stressed. In addition to writing business correspondence and reports, students prepare a career-related document file.

In addition to the Communications courses, the Human Studies Division operates a Language Development Centre which provides tutorial assistance in English. Any student in the college may go to the Centre on a drop-in basis for help. Instructors also refer students for additional help in their regularly scheduled courses.

Language Skills

Most students must complete Communications 1 and 2 as part of their program.

The primary aim of this course is to help students improve their writing. Since reading and writing are interdependent skills, the course will also devote some time to reading as a source of information for writing. Assignments will often integrate practice in both reading and writing. This course will emphasize sentence structure but will introduce the entire writing process. With each assignment, students will be taught to choose and limit their topic and define audience and purpose for writing.

General Studies

AQuestion of Morality

The purpose of this course is to explore the problems involved in making moral and ethical decisions. We will study four basic theories which attempt to explain where our moral rules originate. We will look at the consequences of moral actions for the individual and society. The basic theoretical principles will be applied to important moral issues and we will study the role of schools in teaching morality.

Abnormal Psychology

No one is immune to psychopathology. Everyone has his "breaking point". This course represents a blend of psychopathological theory and phenomenological analysis of the kind of concrete data found in case studies. Each case study represents a major psychopathological condition. Phenomenological conceptions are stressed in the working up of psychopathological profiles. Some of the profiles studied are: transient situational disorder, the neuroses, schizophrenia, manic-depressive psychosis, sexual deviations, alcoholism, and psychosomatic reactions. The different treatment methods are given limited attention, in that this course does not have as one of its aims the preparation of therapists.

Age of the Microchip — Miracles and Casualties of Computerization

We are in the midst of a new age that of the microchip. Since its introduction in the early 1970's, we have been inundated with them. Microchips have made computer power available to almost everybody. It is the purpose of this course to examine the uses and misuses of computers, as well as the benefits and problems of their application.

Anthropology: Introduction

This is an introduction to a crosscultural study of man's behaviour ranging from the way he bears and raises children to the way he perceives and handles death. Societies as diverse as the jungle people of the Amazon and the penthouse dwellers of a metropolis will be studied to compare and contrast their views of key questions. What is normality? What is natural? Is aggression innate? Are gods neces. sary?

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Art of the Western World

Think of this course as a "visit" to the major museums and sites of the visual art of Europe and North America. We will compare the art of different countries, past and present, looking for both differences and similarities. We will look at, read and this about such art as Michelangelo's "David" and Paul Cezanne's imovative canvases. While the aim of the course is to give you an overview of not only western art, but of the cultures from which it originated, the enphasis will be on the art of the last 100 years.

Canadians: A New Look at the Canadian People

This course will provide a new and different approach to Canadian Studies. It will cover not only the history and sociology of the Canadian people (much of which will surprise those who have studied Canada before) but will deal also with the struggles of the Canadian people, our literary efforts to be heard, our music and art, our films, our sports and the ideas and values we have built up to make Canada a unique nation.

Children's Literature

The student who is interested in children and what they read, or have read to them will gain a detailed understanding of the multi-faceted world of children's literature. Books which appeal to early childhood, the primary school child and the young adolescent will be discussed. The form, content and illustrations of picture books, fairy tales, folk tales, myths, fables, legends, fantasy, poetry and realistic hction will be examined from a critical point of view. Specific emphasis will be placed on how to select and use books practically and creatively with children.

Computers and Society

This introductory course examines the uses of computers, both real and projected, and their influences on sovety. After a brief overview of basic computer concepts, including hardware, programs and languages; the course will focus on the sociological implications of the use of computers w such fields as education, business, transportation, communications, medand the home. You will not learn anouter programming or data procsing but examine applications, social spect, and possible future directions domputer technology in a variety of eds.

Contemporary Issues

In this course we will examine issus such as abortion, capital punishseat, euthanasia, honesty in political, incess and personal life, censorship, ad women's role in society. We will tokat these issues from an ethical wat of view, examining the various gruments both for and against each isse. While this course will not yield as abodute answers, it will provoke manutive questioning which will inmase your awareness and understandgofthe issues.

Conversational French 1 nd2

Learning French as a second lanpage is of great importance not only sameans of communication but also san aid to understanding the French alture. The courses encourage active anticipation by the student. Aided by etbooks, video tapes and special promiciation tapes, students learn French such in everyday situations.

In French 1, the student acquires ic vocabulary and grammatical ils. It is a course designed for stuints with no background in French. Inch 2 develops the fundamentals to ic complex structures such as exided questions and answers in past id future tenses.

Gime and Punishment in

Evil has always been a pervasive at of the human condition. Throughhistory, evil often manifests itself what we call crime. To protect their sucture, cultures have been obliged tcreate laws and to punish those who the laws. Writers have always fascinated by this conflict bemen the individual and society and tried to capture its essence in immative works of literature. Through mic examples of myth and fiction, will study individuals and groups seem to have defied the laws of so-We will see some very unusual and some equally unusual punament.

Detective Novel

Stories of crime and punishment form one of the richest traditions in modern popular literature. This course will offer a brief survey of three distinct varieties of crime fictions—the traditional drawing-room detective story, the gumshoe character study, and the contemporary spy novel through a selection of six core texts and several film classics. Works by authors such as Doyle, Christie, Chandler, Hammett, Greene, and LeCarre will be examined.

Developmental Psychology

In this course, you will trace human development from conception to death. You will study the physical and the psychological growth of human beings throughout life. Included will be: the interaction of heredity and environment, the brain and its relation to behaviour, age group characteristics and physiological and psychological problems that appear from early childhood through the aging process. You will see how the individual learns to cope and adjust to stress throughout life and how the use of mental health professionals is sometimes sanctioned.

Deviant Behaviour

Various kinds of behaviours in our society have traditionally been classified as "deviant", "wrong" or "immoral". Such behaviours include acts formally declared illegal, controlled by an agency of society (usually the police), and punished by the courts. Other behaviours considered deviant may be informally controlled without resorting to public institutions. We will examine examples of deviance in many areas and explain why these acts are seen as threatening to society. The questions "what is normal", "what is natural", will be explored in our attempt to understand "normalcy" and "deviance".

Effective Speaking

Effective Speaking stresses oral communication because this is the mode by which first and often lasting impressions are created. The job applicant who speaks in a slip-shod manner may very well be judged a lazy, apathetic person. If articulation is poor and grammar is incorrect, the speaker may be considered illiterate and thus opportunities may be limited. In a society in which the effective persuader is richly rewarded and the deficient severely penalized, effective speaking techniques become essential. This course attempts to help students perfect these skills so they can perform efficiently in both vocational and social situations.

Experience of Human Love

This is a study of human love as it is depicted in literature and film. Emphasis will be on the couple's dreams and aspirations, the stumbling blocks that cause them to resort to the games people play and the struggle that leads to the maturing of the ability to love.

Exploring Human Sexuality

This course will encourage the open discussion of human sexuality in a safe, non-threatening environment which will facilitate participation in the free exchange of ideas.

Fantasy and the Subconscious

This is a course for those who are not afraid to delve beneath the surface of things to seek out the profound meanings of life. Through reading and discussion, the student will discover how existence is shaped by myths, fantasies, memories, dreams, metaphors and symbols.

Film and the Arts in Canada

In this inter-disciplinary study of Canada's people—their thoughts and ideas as seen through their traditions, films, art, folklore and literature—the student acquires a perspective on Canada's past, present and future through a study of various themes and issues that have been of interest to the Canadian imagination. Special consideration will be given to how Canadian literature has been influenced by this country's unique geography, wilderness and landscape.

Film-the Grand Illusion

This course is designed for non-film majors who wish to develop a keener critical awareness of the film medium and its impact on the 20th Century culture. The course will examine the history and development of film technique into a unique universal language expressed through moving images, editing and sound. Selected films will be analyzed in class to discover what constitutes a good film. Field trips to local production facilities will

Course Descriptions

be arranged to give students a better understanding of how films arc created.

Folklore - Ritual and Romance

What do rock festivals, April Fool's Day and spring holiday time have in common? Why do we play Noughts and Crosses, Ring Around the Rosie and Mother May I? Why does a father hand out cigars on the birth of a child? These customs, celebrations and games have their roots in folklore. Folktales are among the earliest and most exciting forms of literature; they represent man's early attempts to explore his ideas, fears. desires and customs. In this course the student will explore folk literature, dance, speech and crafts of many ethnic cultures, as well as the methods used by folklore scholars.

Future, The

This course is an attempt to provide the student with current information and views of natural and social scientists, business and industrial experts, and government officials about what the future holds for us. We will explore many fascinating questions as to what life will be by the year 2000.

Great Composers - (From Bach to the Beatles)

This course focuses on the life, time, and style of some of the major figures of the 18th, 19th and 20th Century music. The composers covered include Bach and Beethoven; Tchaikovsky and Wagner; Stravinsky, Brubeck, The Beatles, The Who and Genesis. The course will present biographical and pertinent musical information about these composers.

Great Thinkers, The

The course will introduce students to the major makers of Western thought with some reference to their Eastern counterparts. The students will be given a chart of the great thinkers and a bird's-eye view of their major ideas. The great thinkers will be grouped into the following major movements of Western thought: Spiritualism and Idealism, Materialism, Individualism, the Christian way of life, the purely Scientific and Rational view of life, and Mysticism.

Heroic Fantasy

The world of fantasy provides the reader with an extra facet to expand his mind and push back everyday living. Fantasy provides the reader with a workshop for creative thinking. This course will explore various genres of fantasy, from science fiction to fairy tales. The student will delve into man's need for fantasy literature and the desirability of this need. He will also read and evaluate many of the outstanding books in the fantasy field.

Human Relations

This is a practical course in interpersonal relations. Looking at business, social and personal situations, the course examines: the effects of past experience and learnings on present behaviour, the part that emotions, values, and human needs play in relations; verbal and non-verbal communications; and how people function in small groups. Classroom experiences will be combined with ideas from the behavioural sciences to provide an integrated understanding of human relationships.

International Politics

The aim of the course is to review the politics of nation-states. The peoples of all countries see their own nations as "peace- loving" and their set of national priorities as "just" or correct. But the complexities of international relations make simple slogans untrustworthy and require comprehension of the idealogical, strategic and economic forces which determine politics among nations in the modern era. Topics include the superpowers, detente, military strategy, nuclear warfare and arms control, international security and supra-national organization.

Litérature et modes d'expression Française

Cc cours utilise des textes canadiens-français et français pour illustrer les différences de langage. Vous devez avoir une bonne compréhension du français pour réussir ce cours.

Literature For the '80's

The process of growing up in Canada encompasses several themes. Through a consideration of different Canadian writings you will study and discuss these themes. You will learn about man in conflict with himself, nature, and his fellow-man. Regionalise (East vs. West, rural vs. urban, English vs French, and minority culture vs. majority culture) will be discussed as it is presented in the selection of writings. A special consideration will be the relationship between the past, the present, and the future.

Logic

This course will help the student to develop correct thinking patterns and to distinguish good arguments from bad ones. By studying the laws and principles of logic the student will learn the differences between arguments that actually prove what they ar supposed to prove and those that do not. The main objectives of the course are to familiarize the student with the rules and standards of sound reasoning, without which meaningful communication is impossible.

Macro Economics

Economics examines the distribution of scarce resources among competing groups. This course in Marro Economics focuses on national income, inflation and unemployment.

Magazines as Literature

Concentrating on the current international field of quality journalism, the course centres around the American and British elite, the best journalism available in all areas – politics, entertainment, fashion, sports, and huma interest. Other aspects of the press be discussed: layout, design, and photography. The popular press (Time, Newsweek, etc.) and the role of specialty magazines will frequently form a basis for classroom discussion.

Marriage and the Family

The family, no matter how it is structured, is the most basic social institution in all societies. The way its formed, how it operates, who is considered a member may be factors that differ from one society to another, but all societies expect a family to be responsible for marriage, reproduction, child development, and through the process of procreation, ensure the servival of the society itself. This course will focus on family formation, how can cope with stresses such as marine discord, child raising, family finances separation, and divorce.

un, Gods and Heroes: Myths of

It this course you will read and dissuccent and modern myths of adthe challenges confronted by therees and heroines of all times trutures touch and illumine our no obsessions with the search for and in infe and in oneself. You sudy the symbolic and personal the of mythology's journey of adture, the quest for life, as it paralthe human growth process.

Vicro Economics

Foromics examines the distribuof scarce resources among coming groups. This course in Micro spomics focuses on how prices are oblished under different market con-

Ind Game, The

Tred of being manipulated? Consalby advertising, politicians and eia? Want to be able to get to the of of issues? This course will deto your ability to think, to isolate restraneous and to focus on the inmation necessary to make a decit will teach you to spot fallacies reasoning, to form your hypothesis dsupport it, and to straighten out whinking process. You will underindue mechanism of the mind, miques of approaching problems dof formulating solutions or opins, and develop methodology for asmg information.

local Conflicts in Modern

This course, based on the series, Moral Question', will examine of the perpetual problems and ficts that trouble modern man: mon, capital punishment, censorsexual permissiveness, euthanavar, etc. Each subject is budged by a video-tape which maizes actual cases, followed by a susion of the issues involved to exand clarify the arguments on both

toris Themes and their

hthis course students view popufeature films seriously. We shall use the work of three outstanding tars. By viewing an early and a stafilm of each, we shall try to deinewhether or not they have matured in their film-making. The emphasis will be on the themes and statements each of the directors is making, rather than on the technical aspects of the film. (Enrollment limited).

Prerequisite: Basic Communication course.

Music of Man

The student who has an interest in music, but has little or no prior training in music will study the basic terminology, the role of the composer and performer, and various styles of music. Styles will primarily include classical, jazz, and cultural music, with secondary references to popular music and music for film. Awareness and sensitivity to these styles will be developed through comparitive listening and discussion. This course is not available to music majors.

Myth and Mysticism

This course provides an odyssey along the literary pathway of myth, magic, fantasy and mysticism into the realms of the irrational and the unknown. Using the symbols of psychology, mythology and religion as a frame of reference, it will explore the works of revolutionaries of spirit and imagination, the visionaries and mystics such as Franz Kafka, Antoine de Saint Exupery, Hermann Hesse, William Blake, Walt Whitman. William Butler Yeats, Emily Dickinson and John Keats.

Novel and the Film, The

This course examines contemporary novels and the films based on those novels in order to discern how recent writers and film makers view our world. The books and movies cover a wide variety of themes, genres, and techniques, but the selection adequately illustrates the common concern to portray the fundamental characteristics - both admirable and contemptible - of human nature. An analysis and comparison of these works should serve as a basis for understanding various psychological, sociological and philosophical perspectives on today's world.

Parapsychology

This course is designed to give you a general understanding of psychic phenomena—phenomena which do not fit into the conventional framework of psychology. This introduction will cover the history of parapsychology, and such manifestations as telepathy, clairvoyance, precognition, retrocognition and psychokinesis.

People as Consumers: Getting the Most for Your Money

The purpose of this course is to examine the role of the consumer in the traditional buyer-seller-maker relationship. It does so by drawing and integrating concepts from economics, psychology and sociology. Often, consumers feel disadvantaged and powerless when dealing in the marketplace; therefore, while examining the conflict that occurs as business, consumers, government and labour interact, this course will focus on the relative power and position of the consumer.

Philosophy of God & Man

In this course we will study what the greatest thinkers of West and East had to say about the nature and meaning of man (Philosophy of Man), how man relates to man (Ethics and Politics), and how man relates to God both through reason, life experience (Metaphysics) and through religion.

Philosophy: An Introduction

This course will review what the greatest thinkers of East and West have to say on the basic topics of philosophy. We will cover God, man, religion, ethics, politics, logical thinking and truth, and the unknown universe, through lectures, seminars, discussions, films and guest lectures. Each issue will be studied from at least three contrary positions. Themes may be genetic control, women's roles, the rights of children, futurology, the contemporary creative scene, facing sickness and death.

Physical Geography

This course is a study of the geography of the physical world and of the earth as the interaction of systems. Specific topics include the earth-sun system, climate and weather, the water cycle, earth plates and earthquakes, rocks and soils, the physical and biological systems and the science of ecology.

Pioneers of Modern Architecture and Design

Through movies, slides and videotapes "Pioneers" explores the roots and growth of today's architecture and design. What is meant by modernity? How was the concept reflected in early Machine Age, last century's Industrial Revolution? With that revolution, traditional design in architecture and artifacts gave way to mass production and the decline of design standards. The romantic early Victorian visionaries, in reaction, dreamed of a new style for this dynamic new age. From William Morris to the Bauhaus came today's ideals of architecture and design. This course, in short, helps the student understand the architecture and design around him by exploring its development in building, furniture and artifacts.

Population and Social Change

What will our world be like in the year 2000? The answer to this question will be greatly influenced by population changes not only in Canada but also in the rest of the world. Fertility rates, death rates and immigration trends in Western Africa, Latin America and Asia affect global population and Canadian society. Rapid population growth creates problems such as food scarcity, poverty and social instability. This course will study Third World demographic trends and Canada's response to population growth. Theories of modernization and social change will also be included in this course.

Professional and Creative Writing

Students will review the various disciplines of writing for radio, television, newspapers, and magazines. To this end, students will examine and analyse news reports, articles, plays and short stories, study the techniques of description, characterization, plotting and dialogue writing. Also, students will study the techniques of professional writing by studying the techniques of master writers.

Psychology 1: Introduction

This course embraces such topics as biofeedback, non-verbal communication, weight control, aggression and violence, environmental influences on sexual behaviour, stress, conformity, ESP, sensory deprivation, advertising (open and subliminal), brainwashing, yoga and transcendental meditation, drugs and altered states of consciousness, hallucinations, and behaviour therapy. Case studies, "action projects", demonstrations and discussions are used to convey psychology's basic discoveries about human behaviour.

Religions of the World

This course will familiarize students with some of the major religions which exert a great influence upon mankind and make them aware of the thought-patterns and significance of the phenomena of religion. The course consists of two parts: (1) A study of basic tenets, beliefs, practices, philosophies and histories of major religions. (2) A critical analysis of general questions relating to religion, such as: existence of God, problem of evil, after-life, religious experience, religion vs. science and philosophy, etc.

Science Fiction - It's Your Future

When Mary Shelly wrote Frankenstein in 1817, it was inconceivable that man would ever be able to reproduce himself artificially; when Alvin Toffler wrote Future Shock in 1970, the technology to build a humanoid was available; in 1978 cloning was an established fact; by 1990 we may all be automata.

This mini-history of the developing scientific imagination will be cloned (duplicated) during the course. Ideas and facts from technology, business, biology, sociology and art will be the starting points for discussion of the stories. We shall try to find the fine line between fact and fiction.

Short Story, The: Classic and Contemporary Short Fiction

You will read, talk and write about short fiction, i.e. stories which can usually be read, understood and appreciated in one sitting. Each story will be dealt with as something which illuminates our own lives as much as presenting the published thoughts of a writer. Though I shall provide a good deal of information on critical approaches and technique, the central focus of the course will remain on the stories themselves and the reader's experience of them.

Social Psychology

This course examines conditioning and desensitization, learning, memory, hypnosis, acupuncture, genetics types of love, cognitive and emotional development, the purpose of play, personality theory, defense mechanisms, repression, personality testing, abnormal sexual behaviour, mental illness. group therapy, role playing, transactional analysis, persuasion, propaganda, attitude change, applied psychology, and psychology's future. Case studies, action projects, demonstrations and discussions are used to convey psychology's basic discoveria about human behaviour.

Sociology 1

In general terms, sociology is the study of human social or group-behaviour. In this introductory course, sudents will survey briefly sociology's history and prominent figures. They will investigate sociology's view and interpretation of human social behaviour. The definition of a group, its formation and maintenance, and its establishment of a pecking order will be discussed in terms of contemporary social issues.

Sport and Society

This course examines the social organization of leisure in North Amencan society. Specifically, it analyses human behaviour within the context of sporting and athletic events. It focuses on both individual behaviour and that of groups or teams.

Tales of Terror

Thoreau observed that there is "nothing so much to be feared as fear

". Discover how writers evoke and manipulate fear for the dreadful delight of their audiences. Tales of Terror will explore the literary legacy of horror from the Gothic tradition of the 18th century to the contemporary fiction of fright. The development of this theme will be seen through the novel, short story, poetry and film. This course will help students unterstand and critically assess the impact oftechnological change. Emphasis will be placed on the ecoomic and social consequences of new echnologies...what jobs/occupations will be needed versus those that will ecome redundant...what changes will occur in the nature of work – its orgaization and design. Finally, the course will examine the effect of techpological change on society as a whole over the next decade.

Values and Choices

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Students will become more acquainted with their own sense of vales-the things in life they wouldn't and to live without. The class will also explore what other well-known individuals and societies have valued and what results these beliefs have had on their lifestyles and opportunities. Interpersonal skills and power of observation will be developed during discussions of responses to various art isoms (painting, popular song, film and poetry) encountered.

Voices of Comedy

Mark Twain once said that the "searet source of humour itself is not joy. in sorrow''. In this course, we shall mempt to apply this premise to varbus modes of comic expression to deemine what it is that makes comedy function and who has become the tarst of today's best comedy. We shall mamineseveral comic forms: early adlater comic films: stand-up monolwists; sitcoms; skits; and satirical usays and novels. The aims of the ourse are to determine the reason beind the madness of comedy, and to asanain the place of comedy among ther artistic genres.

Why Nations Go To War

In this course you will learn about the political causes of war, the utility and role of war, and generally about the prospects for peace in the nuclear are. We will cover (a) analysis of the First and Second World Wars, the Kotean & Vietnam Wars, the Indian- Paktani & Arab-Israeli Wars and the Arsian Gulf and Falklands "War": the comprehensive look at nuclear the hology and its military and civilian of major powers and (d) a amprehensive look at disarmament and arms limitation measures and the obstacles to halting the arms race.

Women & Men in Society

The purpose of this course is to develop an understanding of the function of different roles in society. The focus will be on the differences between the roles of men and women in various societies both historically and in the present. Economics, sociobiological and psychological elements which influence roles are analyzed.

Women in Film and Literature

As the concept of woman changes, it is important to both men and women to examine the choices, problems and challenges that have faced and are facing women. This course will consider works by and about women and will present a wide range of female characters as shown in literature and films. From an explanation of theme, character development, plot, writing style and literary devices, you will come to a better understanding of women in literature.

Applied and Creative Arts

A/V Production 1 - 35mm

This advanced course continues to provide technical and artistic information as well as an opportunity to develop personal skills in the production of audio-visual productions. Special emphasis is given to developing professional work attitudes and image quality and content.

Administrative Management

Highlighting the vocational rehabilitation setting as a business enterprise in all its aspects, students study management styles; budget and costing approaches, public relations and marketing, priority-setting and decision-making; personnel practices; etc. Some consideration will be given to the role of unions in the rehabilitation setting, and to fund-raising and government grants.

Advertising and Promotional Writing

This course will broaden the student's understanding of the role of the professional writer and the many opportunities open to him/her. It will further develop basic writing skills, initiative and creativity, judgment in handling sophisticated writing challenges, and the ability to organize and plan work patterns. Practice will stress such skills as dealing with financial materials, writing selling copy, preparing presentations and selling your recommendations, handling technical information, ghost-writing articles and statements, speech writing, writing for corporations and associations.

Advertising Writing For Public Relations

This course will develop the skills introduced in Introduction to Advertising through practical copy-writing, rough layout, scripting, designing direct mail, scheduling, buying and assessing media. Various promotions will be analyzed. A full campaign, including research, conception, budgeting, scheduling, copy and layout, use of an ad agency and evaluation of campaign will be worked out in detail by the students.

Advertising 1

This course will introduce the student to the general theories of advertising and marketing; explain the requirements of various advertising organizations and how they work; the mechanics of dealing with them for the commercial artist.

Advertising 2

This continuation of Advertising for Graphics 1 applies the principles learned in that course to an advanced level and will combine theory and practice with the specific projects the student is undertaking in graphic design classes.

Analysis for Design 1 and 2

This course will analyse the theories of 2 & 3 dimensional design in chronological order from the Classical period up to the modern day. The motivation behind the uses of geometric, organic and associative styles in design and their application to the theatre, will be discussed, as well as the psychological effects of these styles. APPLIED and CREATIVE ARTS

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> Slide lectures, discussion groups and movies will constitute the methods of instruction. Students will be expected to maintain a portfolio of design throughout the program.

Anatomy and Physiology 1

In this study of the skeletal system, arthrology, and the blood and blood forming organs, many common unsoundnesses will be covered with respect to their location, cause and treatment. In addition, three body systems will be studied: the nervous, common intermentary and urogenital. The various ailments affecting these systems will be studies with emphasis on recognition, treatment and prevention.

Anatomy and Physiology 2

In this study of the structure and function of the digestive and cardiovascular systems, students will gain a greater understanding of the various ailments affecting these systems, with emphasis on prevention, identification and treatment. This course also involves the study of the structures and functions of three other body systems: respiratory, opthalmic and muscular. The various abnormal states of these systems will be examined with an emphasis placed upon the understanding of the pathology and associated treatment.

Announcing Techniques 1

The student will learn the fundamentals of announcing procedures as practiced in Canada, covering the personality program, news and sports announcing and interview shows.

Announcing Techniques 2

This part of the announcing course will place heavy emphasis on the personality part of radio, that is the announcing technique used in recorded and live musical programs.

Announcing Techniques 3

This course is a continuation of 477-202. This time the announcing of remote and outside programs will be taught in depth.

Applied Botany

Students will learn the fundamentals of plants and plant growth, study all functioning parts of plants, their reaction to environment and the practical application of cycles and energy flow through ecosystems as they relate to the landscape industry.

Applied Botany& Plant Identification

This is a study of commonly sold indoor plants, their anatomy and the relationship between plants and those exterior components which affect their growth (soils, insects, light and other conditions). Students will learn the common and botanic names of each plan discussed.

Applied Soils

A study of Southern Ontario soils in horticultural, ecological, engineering, geogrphical and chemical terms, stressing the relationship between theory and common trade practices involved in the landscape use of soils.

Arboriculture 1 and 2

This course covers the topics of nursery site selection, layout, development, maintenance and management. Deciduous and coniferous trees and shrubs will be considered under the headings of transplanting, storage, transporting and nursery specifications.

Area Layout and Design 1

This course will introduce the student to the basic design principles and planning factors related to ski resort development. It will also develop an awareness of the various procedures necessary to create a resort complex.

Area Layout and Design 2

This course further develops the basic design principles and planning factor related to ski resort development.

Arena Construction, Design and Maintenance

Students learn the architectural designs and construction of arenas including technical set-ups and how the maintenance should be carried out in an arena with regard to mechanical equipment, building and structural maintenance.

Art History 1 and 2

A survey of art, architecture and the minor arts from early civilizations to the Renaissance period in Southern and Northern Europe, this course will trace the development of Western man as demonstrated in visual forms and will establish the relationship between permanent art forms such as architecture and architectural sculpture, fresco painting and furniture design, and the ''portable art forms'' such as pottery, textiles, easel painting and appliedarts 1

Arts

This course teaches effective production techniques that can be applied to broadcastingin Canada. It will examine, in part, radio programming.

AV Applied Physics

Students will review the basic physical theories of light as related to audio-visual equipment, specifically lenses, mirrors and prisms. The course will also deal with sound and sound reproduction theory and applications. Emphasis will be on evaluaing the design of audio equipment to provide adequate acoustical levels and correct acoustic dispersion in halls and auditoria.

AV Electronics 1

This course will provide the Technical Option student with a basic understanding of series and parallel, direct and alternating current circuits. The student will become familiar with the functions of various electronic components, testing instruments and trouble-shooting methods. The coursewill have alternating lecture/laboratory periods.

AV Electronics 2

This course provides the student with a working knowledge of the electronic components used in audio-visual systems. The student will be able to recognize specific design features, to diagnose common component faults and repair them. The student will be expected to make any necessary adjustments and set up preventative maintenance procedures to keep the equipment in good working order.

AV Electronics 3

This course is a continuation of the objectives in AV Electronics 2 with emphasis on video equipment and systems.



WMathematics

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e

This is a refresher course to provide testic technical mathematics for the AV Applied Physics and AV Electronto courses.

AV Media Applications, Introduction

Sudents will learn the operation, epication and presentation of infornation on conventional audio-visual supprent, will produce basic audionual materials and start to assemble tem into a portfolio.

WProduction Workshop, Sponsored Projects

The student will have the opportuity to work with clients, sponsors and or educators who need specific auto-visual instructional resources or romotional presentations. Each stutent will work with an assigned consult (client) who will use the audionual project which the student will roduceduring this term. The student al consultant will meet on a regular wekly schedule to plan and develop te AV software for the consultant.

VTechniques For Public Relations

This introduction to the use of auto-visual materials production and anniques incorporates the various tethods of photo reproduction, the e of cameras and darkroom practes.

lasic Black and White hotography

Sudents without previous photophic experience will go through the tographic sequence to be able to the aphotographic record of the imstaround them. Students will bethe familiar with the theoretical and trical aspects of the camera, the throom and the workroom, so that ty can apply training in their major togram.

asic Horse Health 1

This course will deal with common the problems of the horse. Based in initial discussion of the healthy re, emphasis will be placed on smon injuries and treatment using stical first aid. The other major of emphasis in this course will be mon diseases of the major body ems, their symptoms and appropritreatment.

Basic Horse Health 2

This course will involve the basic study of conformation as it relates to unsoundnesses. Contents of the medicine cabinet, identification of lameness problems and lameness care and therapy will also be discussed.

Basic Nutrition

In this course, students will become familiar with common horse feeds, horse feed terminology, the use of commercial products and the common rules of good feeding. Emphasis will be placed on practicality and feeding economically.

Basic Ticketing

The student learns the skills essential to ensure the accuracy demanded by the Bank Settlement Plan and scheduled airlines, related to the issuance of air travel documents.

Breaking, Training and Conditioning

Students will work with unbroken two-year old Thoroughbreds, taking them through a progressive system of breaking and training. In the second half of the semester, unbroken grade horses will be used. The various psychological, theoretical and practical aspects of training and conditioning will be studied. Young horses will also be taught to load.

Broadcast Techniques

This general discussion course is composed of topics relating to new and everyday developments in the broadcasting industry.

Broadćast, Research and Marketing 1 and 2

The science of buying time in the radio industry in Canada is becoming a more complex game as the years pass by. This course will deal with ratings and how they operate in both the programming and buying ends of the business part of radio.

Carpentry 1

This course provides a practical introduction to stage carpent ry. The use of hand and power tools will be examined and the basic stage units – plates, frames, risers and stair units will be built. In addition the student will learn how to work safely, use the shop and read drawings.

Case Studies 2

Students will continue to work on a selection of PR case histories covering a variety of situations and conditions. When feasible, guest lecturers will describe an actual case history.

Cinematography - 16mm

This course provides students with the theoretical and artistic knowledge as well as the practical skills required to complete a series of multi-discipline assignments of increasing technical difficulty. This will be accomplished through illustrated lectures, lighting and camera equipment demonstrations and workshops. Technical and artistic image quality is emphasized.

Coaching Awareness Theory 1 and 2

This course will comprise weekly one-hour discussion sessions covering such topics as horse and rider turnout for the exam, oral preparation, current equine publications, familiarization with the rule book, longing and long lining techniques, course walking and distances as well as uses and application of specialized equipment.

Colour Theory

This is an introduction to the various colour theories and terminology upon which colour systems are based and are used in the Visual Arts. This involves both theoretical learning and practical application. Students will be required to attend the National Design Show in early November.

Communications Theory

Canada has produced two of the world's great communication theorists, Harold Innis and Marshall Mc-Luhan, plus a mixed private-public broadcasting system in two languages. In this course, the basic ideas of these two writers and their followers will be examined and discussed. The course will follow a seminar format, with student presentations weekly.

Computer Animation/Videotex

Students will adapt various video image creation methods and text design systems to motion. The basic principles of visual animation will be introduced and modified to take into account the production techniques employed on microcomputers. Upon completion of this course, students will be able to create and produce seAPPLIED and CREATIVE ARTS

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> quential images which would result in animated effects. Students will become familiar with the Telidon system. They will assemble and edit their portfolio of computer-created images on video tape.

Computer Basic, Introduction

Using microcomputer systems to support communication processes, students obtain hands-on programming experience in Basic. At the end of this course they will study creating simple graphics and will be able to describe the major functions and applications of data processing systems.

Computer Concepts

This course will provide the student with computer literacy, skills, and knowledge required to function effectively in a computerized- reservations environment, operate both Cathode Ray Display Terminals (CRTS) and printer terminals on the systems of airlines and tour operators.

Computer Design

Students will explore the various applications of the computer in the creation of text and visuals to support audio-visual communication processes. Through exercises and projects to gain experience in using videotex hardware and software based on Telidon standards, students will be able to create and produce text, chart, graph, cartoon and freehand visuals. Students will store their visuals, recall them for modification, update and finalize them for an audio-visual presentation.

Computer-Controlled AV Equipment

Students will learn to program and operate a variety of random access and computerized audio-visual equipment and related production processes. They will produce projects that require an analysis of the appropriateness of the medium in relation to the project's communication objective.

Computers in Design

An introduction to the use of computer technology in Industrial Design. Computer aided design theory and hands-on practice are included.

Concessions 1

This comprehensive study of the various concessions within the arena structure, includes the processes involved in operation of such facilities and planning.

Cosmetic and Beauty Industry

A detailed study of cosmetic application techniques used in fashion photography, stage production and television films and coordinating hair styles (current and period) will be in the core of this course. Students will study the relationship between various types of lighting and film used for cosmetic applications.

Cosmetic Theory and Practice 1

Students will review an analytical study of cosmetic ingredients to understand various government controls, be sensitized to current trends in product use and application techniques and learn modern methods of applying cosmetics on clients for corrective make-up. Cosmetic firms, their marketing policies and staff training methods will be outlined. Finally, diet. weight control and basic nutriti on will be discussed to help students understand the relationship between fitness and beauty.

Cosmetic Theory and Practice 2

Application techniques for fashion photography and stage will be included in this course together with demonstrations of how make-up is applied on oriental, dark and fair skins for photography, fashion shows and every day. Skin-care, nail-care, hair-care products are studied to examine their ingredients and how they function. Practical work will include make-up demonstrations on clients. Field trips are also scheduled.

Costume 1

This is an introductory course in costume history and the basic elements of costume construction. Students develop a sense of coordination of costumes with set and light design.

Criminal Legislation 1

Students study the procedural criminal law and application. Emphasis will be placed on the legitimate use of force, powers of arrest, search and seizure, compelling the appearance of both the accursed and witnesses. Bail procedures and prerelease of offender, will be discussed in detail.

Criminalistics 1

The course will provide the study with basic knowledge and skills in the following areas of police expense: the science of fingerprints: evidence - is collection, preservation, continuity, and significance: handwriting.

Critique 1

In this detailed study of the results of the student weekly publication COVEN, students will analyse in deta all aspects of the publication, paying particular attention to the overalleffects of layout and design, choice of story position, effectiveness of headlines and accuracy of content.

Design Applications

As a follow-up to elements of design, this course is a study of the way in which various elements and princples of design are applied to actual products. Through the study of case histories, product analyses and design surveys, the students become familiar with a wide variety of influences which effect the design process.

Design Futures

A continuation and development elements of Design and Design Apple cations, this course deals specifically with those influences which have an impact on future design developments

Design Graphics

This course will study the natured graphic influences on industrial de sign. The origins of graphics, typography phy and reprographic processes will related to actual use in the design and production of symbols, signage, paiaging, displays, publications and prouct identification.

Design Presentations 1 (Drawing Fundamentals)

This is a course structured to develop drawing, sketching, and basic rendering skills and techniques ucd for communicating design concepts recording visual material and illustring ing ideas and variations. Emphasiss placed on developing basic percepts skills to encourage fluency in applied drawing skills and perspective theories.



Design Presentations 2

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This course is a continuation of De-Presentations I in which more aded principles of perspective are orduced along with a wide variety redia and drawing/rendering tech-

besign Presentations 3

A continuation and development of period Presentations 2, this course explasizes media, materials and ethods used for visually communining and presenting design information at various stages in the design rocess.

Design Presentations 4

This is a course in advanced studio enhods for Industrial Designers. The photographic theories are introact and camera/lighting techniques retaught. Related presentation techaction used in advertising, display, provotion and product service fields reintroduced.

Design Theory 1

This course explores the basic tene and theories of design aiming at the event of design. It is run in contaction with Interior Design 1.

of Jesign 1

Studies in line, tone and colour of soure, values and schemes will be apted to spatial concepts in the abract. In conjunction with research with these are applied to specific adruising design graphics. In the exetion of projects, you are introduced the various art media; terpera, water clour and line, as well as combined teniques.

Astination I.A.T.A. Area 2

Destinations is based on student-dired study and research of I. A. T. A. Ira 2. Classes will require group and idual research. The available inmation includes printed material, imputer aids, current travel books, other travel literature.

lestination Travel Geography

Students will be personally responfor their own progress in study research, so as to be prepared for on stated material by certain Classes will require group and tidual research. The available inction includes printed material, int travel guides, atlases, etc. The student, at the end of the course, will know the geographic location of all important countries and cities in the world.

Direction 1

In this introduction to the work of the film and television director, with emphasis on short films and TV productions, students will learn about the work and responsibilities of the director and the need for extremely close cooperation with the producer, production manager, performers, and all other people involved in production. Students will prepare and direct several projects, including all the assignments of the Super-8 Film Production Workshop, and will be expected to arrange shooting schedules and film shoots with other members of the production crew. This course is directly related to Scripting 1. Super-8 Film Production Workshop 1, and Communication 1.

Documentary Film Styles 1

This course examines the high degree of professionalism and creativity required to produce documentary films. The student is introduced to many films of the genre and to the history and development of documentary films to the present time. Many films will be screened so that the student will understand and appreciate the different visual and other creative concepts used in this medium.

Drafting and Detailing 1 and 2 (Graphic)

Students will be introduced to drawing as a form of communication and taught the techniques and skills required for sketching and drafting information. Basic construction, lettering, line technique, plan, elevation, section, isometric, oblique sketching and perspective arc the standard techniques to learn graphic communication.

Drawing 1

Drawing 1 is a highly practical course in which instructors briefly review some theories. By drawing, the students will then have the opportunity to demonstrate their understanding of these theories. The course will demand a high proportion of work done in the student's own time and sketch books will be examined on a continuous basis.

Ear Training 1

Ear Training 1 is an introductory course designed to develop the necessary fundamental aural skills for record copying, improvisation, arranging, the "faking" of tunes, sight singing, and musical composition.

Ear Training 2

Ear Training 2, which will continue to develop aural skills, introduces lifting techniques, part singing, silent dictation, tonicization, turnarounds, nondiatonic modes, and spread voicings. Aural recognition of topics covered in Theory 1 and 2 will be stressed when appropriate.

Editorials/Reviews/Copy Editing

This is a study of the roles of feature writing and editing in newspapers with emphasis on the practical aspects of these functions. Students will develop feature ideas, do the necessary research and interviewing, and write comprehensive newspaper features. They will also copy edit and write headlines for newspaper news and feature articles.

Effective Speech 1

This course will introduce the student to effective speech communication. Oral communication theory and technique will be brought out and confirmed through student participation. Grammar, inflection and tone will be included in the assessment of student presentations.

Effective Speech 2

This course will further develop effective speech through the teaching and practice of good oral communication techniques.

Elements of Design

An introductory course in the basic concepts and elements which are used in the design process with special emphasis on those elements which most strongly relate to a 3-dimensional design.

Elements of Design 1& 2

These courses will provide the photography student with a sound understanding of all aspects of composition and design. The student will develop a visual awareness for the principles of good design and an understanding of the importance of their function in the APPLIED and CREATIVE ARTS



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> photographic world. With the information acquired through theory and during practical projects, the student will become proficient in this important area of photography.

Elements of Fund-Raising

This course covers the growth of philanthropic movements, their organization; volunteer motivation; objectives, methods and techniques of fundraising; and examination of case histories.

Ensemble 1 to 4

Ensemble is designed to give all students a daily warm-up physically and vocally before they begin the day's activities. Divided between the disciplines of voice and movement, the warm up will be supervised by the instructors of voice and movement. This will not be so much a teaching time, though problems may be treated in this period, as a chance to warm up and leave the teaching periods clear for more comprehensive activities within each discipline.

Ensembles – Improvisation

A performance and study course focusing on developing the students' capabilities in small group performance situations. Instructors place students in ensembles performing at their proficiency level to get the opportunity to apply material learned in a weekly lecture. The ensembles offered are: Big Band, Small Ensembles/Concert Band, Small Groups, Vocal Ensemble.

Equestrian Skills 1 and 2

This intensive riding program, both on the flat and over fences, prepares both horse and rider to meet the requirements of the levels 1 and 2 equestrial coaching certificate. Correct body position, effective use of aids, longitudinal and lateral schooling of the horse, gymnastic jumping, course work, cross-country jumping, the psychology of training will be the major areas of concentration. The ultimate objective is the development of stylish, effective riders both on the flat and over fences.

Equestrian Skills 1 and 2 (Coaches)

This intensive riding program, both on the flat and over fences, prepares both horse and rider to meet the requirements of the Levels 1 and 2 equestrian coaching certificate. Correct body position, effective use of aids, longitudinal and lateral schooling of the horse, gymnastic jumping, course work, cross-country jumping, the psychology of training will be the major areas of concentration. The objective is the development of stylish, effective riding both on the flat and over fences.

Equestrian Sports Psychology

This course is an introduction to the principles and concepts of motor learning and their application to the teaching of equestrian skills. You will study the distinction between learning and performance, the classification of motor skills, the learner and the environment. Equestrian skills will be analyzed and this analysis used as a basis for developing teaching techniques.

Equine Exercise Physiology

This course will teach you "how the animal works as a biological machine". It includes studies at the cellular, tissue and body systems level. Selected aspects of equine function and horse performance will also be covered. Muscle function and the dependence of muscle on other body systems to maintain function during exercise will constitute the main theme of the course. Other topics include such components as biological adaption, dimensional aspects of function, energy metabolism and nutrition.

Facility Management 1 and 2

This course will develop the student's managerial abilities in the areas of personnel supervision, inventory control; ordering feed; tractor maintenance, repair and driving; jump design and building; paddock building and repair; maintenance and upkeep of records, and many other skills required in the management and operation of a facility.

Facility Operations 1 and 2

Students will learn and practice the day-to-day skills that are used in the horse industry. Paddock construction, jump building and repair, tractor driving and maintenance, inventory control, arena harrowing, stall maintenance and repairs and other skills will be covered.

Fashion Industry Careers

In this geographical study of all areas commercially important to students of fashion and related careers, students will go on field trips individually and in groups to specific locations where fashion events are held. Travel will be by bus, car pools or public transportation.

Fashion Modelling Industry2

This study of the various career op portunities a model can expect to encounter in the fashion industry will review employment trends, opportunties and expectations of each specific organization will be detailed.

Fashion Photography Modelling

Students will be taught to work in front of the camera as a photographic model. Instruction includes photographic categories such as sportswear, dresses, beachwear, formal wear, fashion accessories and magazine coers. Students will be shown how to coordinate hairstyles, make-up and accessories to complement the gamet being photographed.

Fashion Show Production 2

Using skills learned in General Fashion Show Production 1, students will produce a major fashion presenttion. Areas of study will include promotion, backstage management, set and stage layout, selection and coordnation of merchandise, model selection, commentary, and lighting and sound considerations.

Fashion Show Techniques 2

This course will include advanced performance in runway and stage ech niques including dance steps and choreography. Voice training for TV and film will be an integral part of this course as well as practical involvement in fashion shows and screen performances.

Fashion Stylist Photography

Through a series of projects students develop skills in fashion coordnation for photography and other forms of fashion promotions. Fashio trends, garment selection, choice of make-up, costing of studio and on-lo cation photography, and layout composition are included.



Feld Orientation 4

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A study of the administration, enance and programs in the varsopes of arenas under actual contooi, supplements other courses in program by emphasizing the pracsolity of various functions.

Feld Practice 1, 2, 3 and 4

Sudents pursue an interest area the ultimate result to assist in obing full-time employment in the erration field. Students take full reprobility in designing a proposal, elementing, documenting and evalting the field work experience in corection with agency or resource ersornel. In the first semester only, students do not require practical ency work, but must successfully implete aclassroom orientation reterments to continue.

Hed Work Orientation 1 and 2

Emphasis will be on practical learnawith supervision. Students will with a variety of areas related to caexemployment. Since all work is entoned after an audition, the type foork a student will be selected for dictate future employment suita-

The two semesters are a natural mbination of each other with varsepects of fashion show involvetal predominating in Semester 1. In mester 2, students will work in their weive options and field of specialitan.

mand Television Production Wikshop 1

The student learns actual "handsproduction techniques in smaller fuction units on a three-week rota-Each part of the class will spend whird week learning film camera lighting, television technical opertion and production techniques and TV Direction Techniques. At speam teaching is involved.

mand TV Direction 1

this course develops directorial and deals with particular probassociated with specific types of TV programs of news, current afdocumentaries and specialized formats.

Film and TV Program Formats 1

The course examines the internal structure and style of a variety of Film/ TV program formats, through screenings of sample productions . lectures, and discussions. The course is closely related to script writing and direction courses, servicing both of them.

First Aid and Accident Prevention

This course will teach the student practical skills based on first aid principles and standardized procedures related to emergency treatment of persons in accident situations. Consideration will be given to causes and prevention of accidents and accidental injuries. Upon successful completion of the course, the student will be awarded the St. John Ambulance Standard First Aid Certificate.

Floral Design Lab 1

To design flowers and trim accessories for sale in a retail flower shop, students learn the special treatment of flowers for weddings and special events, colour combinations, pricing and packaging of the designs created by the retail florist.

Floral Design Lab 2

Students will cover basic and practical methods of creating all phases of floral designs: styled arrangements, dried floral materials, corsages, bridal flowers, funeral tributes, table settings, as well as the accessories that have to be made up to trim or complete a given arrangement.

Flower Shop Seminar 1, 2, 3 and 4

The flower shop seminar course will be set up as a half-hour discussion on the different phases of the operation and set-up of the retail flower shop. The balance of course time will be in the actual operation of the Humber College Flower Shop where the student will be fully acquainted with the complete operation of the retail florist outlet.

Freehand Drawing 1 and 2

This is an introduction to freehand drawing using objects both organic and man-made as well as the human figure; at the same time it will explore the essential areas of two-dimensional design, form, line, shape, mass and tone to communicate visually ideas, concepts, thoughts and feelings.

Functional Keyboard 1 and 2

This course helps the student acquire keyboard skills in applied theory (harmonic structures, chord/scale concept, scales, chord progression) and basic "legit" reading. It also introduces the principles of keyboard improvisation.

Fundamentals of Reporting

This course will lay the foundations for all news writing and reporting for all media. Heavy emphasis will be placed on analytical thinking in terms of news values and on the development of a clear, concise, and readable style of writing.

Garden Centre Operation

This course will familiarize the student with the diverse operations of a garden centre. Topics include planning, personnel, pricing, location, merchandising, displays, advertising, maintenance of stock, customer relations, credit and financing.

General Fashion Industry 1

An awareness of the development of fashion trends is the basis for maintaining and developing authority in the field. Students gain this professional approach through visits to industry, discussion with guest speakers in various fields of fashion and study of current fashion events.

General Fashion Show Production 1

Students will learn to organize fashion shows from the beginning to a polished professional show finale. Involvement in auditions, model selection, stage and set design, press and media liaison, fashion commentary (written and spoken), wardrobe coordination and fittings, music selection, choreography and timing techniques will give sound experience. Shows will be produced during the year but one major fashion show per semester, held in a public area such as a shopping mall, will be the focus.

General Fashion Show Techniques 1

Students will be trained in fashion show techniques employed by fashion models for various categories of garment showings including formal modelling, runway productions, showroom and television modeling. APPLIED and CREATIVE ARTS



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Emphasis will be placed on total fashion coordination and students will be required to coordinate hairstyles, cosmetics, fashion accessories and undergarments for the required effect. Video taping of practice sessions will occur periodically throughout the year.

Graphics and Animation 1

This course will examine the aesthetics and technical requirements of graphics for film, television and A/V presentations and examine various styles of animation, through illustrated lectures and practical assignments.

Graphics 1

Projects in Graphics 1 relate to reproduction and printing methods. Accented is the production of concepts in layout form, the techniques of creating ideas and translating these into preliminary graphic "roughs". All work is applied to the various advertising media. From the beginning, our objective is to help develop a truly professional, as well as a creative person.

Graphics 2

Conceptual design for the various advertising media generated in Design 2 is converted to layout and reproduction art in Graphics 2. A repeated sequence of these projects is related to reproduction methods review. Work will progress through line, half-tone to four-colour process art technology.

Guest Speakers 1

Each week, speakers from the radio industry are invited to speak about their fields of expertise. This course is common for all three years of radio students.

History of Art 1

This is a review of art forms of Western man from the early civilizations to the end of the eighteenth century. This course will emphasize the three-dimensional aspects of art and trace the development of human effort to give visual form to problems of proportion, environment, religious and philosophical beliefs, within the limitations of the geographical, economic and cultural background. The Industrial Revolution and its effects will be covered in the second semester of this course.

History of Industrial Design

A study of the historical foundations of Furniture and Industrial Design. Visual references are combined with studies of the origins of styles, forces of change, development of skills and technology, and potential uses of historical resources.

History of Packaging 1

This course should prepare the student to consider the package and identification of packaging as an integral unit in harmony with its concents, means of distribution and consumer marketing and methods of the twentieth century. The student will be given a chronological history of the development of packaging philosophy and be expected to make presentations in class.

Horse Industry 1 and 2

The history, development, and aims of many segments within the multifaceted horse industry will be presented through guest lecturers, field trips, films and demonstrations. In addition, students will be kept up-to-date on current events in all areas of the industry. Employment opportunities for graduates will be discussed.

Human Growth and Development

In this study of human growth and development patterns from conception to old age, social, emotional, intellectual and physical aspects of each development stage will be examined.

Industrial Design 1

This course is a development of a practical understanding of structure and forces prior to initial work in product design. Individual and group critique are combined with exploratory assignments to investigate the theoretical and practical elements of material_s, structural forms, problem descriptions and analysis. Introduction, practice and development of problem-solving techniques are combined with the growth of effective visual communications through sketching, drawing, drafting and scale models.

Industrial Design 2

This course is a development of products to the prototype stage: a continuation and implementation of Industrial Design 1, with practice and further development of basic studio and shop skills required to proceed with advanced work. Emphasis is placed upon suitable levels of craftsmanship, use of materials and processes, form development and market applications.

Instructional Theory

This course will prepare the studen for practical involvement when teaching riding. The student will learn the theory of teaching, the methods of organizing lesson plans, dealing with diferent personalities and coping with possible problems that might occur during a lesson.

Interior Basics

This is an introduction to contemporary architecture as human anatomy sizes, furniture sizes, shapes and practical application; character and mood of shapes; textures; lighting (natural and artificial) planning and zoning for human needs.

Interior Design 1

This is the study of the elements and principles of two and three-dimensional design and their application to solving abstract and functional problems in space. The course consists of weekly class lectures and lab assignments based on the lectures.

Interior Design 2

This is an introduction to the solving of actual interior design problems. This course involves the beginning of synthesizing previous information and applying it in a practical way to problematic situations.

Intro to TV Production 1

Students will learn the basic openaing and production techniques for tekvision. Starting with the single-camera video-recording system, students will progress to the multiple-camera faciity of the basic television studio. At te same time they will learn how to research, develop, crew and direct sintple television production.

Introduction to Advertising

This is an introduction to adverts ing media and priorities for Public Relations.

Introduction to Law

This course will familiarize the se dent with our legal system as a whole The course will focus on the definition Ir R ar si ar ur Ir be an er lig al: str

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slaw, its elements and role in a demattic society, the form of our govement, the history of English Law, The Constitution Act, the elaboration Federal and Provincial Legislation. te concept of civil liberties, and the indamentals of natural justice.

httpduction to PR and Case Studies

This course will examine the hisor and trends, principles and practice ethe ant and craft of Public Relations ctinitions, concepts, relation to pubrity) and will relate these themes to ase histories.

broduction to Radio

The objective is to give the student complete understanding of the hismy, the role, the organization, the legaspects, music content and news ad sports policies of radio stations in (anada. The course will also present se differences between private and Mic broadcasting in the nation.

production to Radio (Public **Relations**

To acquaint PR students with radio how they can use it in their profesin, they will study its history. tools attechniques, style of writing and aderstand production requirements.

htroduction to Radio 2

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An examination of the difference tween stations using sample tapes st speakers representing differfunctions in radio will be the hightof this program. The student will learn the operation theory of radio Tions

troduction to Recreation and usure Services

This course will define recreation atrace its historical development Particular emphasis on Ontario. Ments will become knowledgeable the vious legislative acts affecting rectonin Ontario and study in detail committee and staff structures govmunicipal recreation. Program activities by season, age p. and sex will be studied with acular emphasis on the activities saffing, and organizational proceats for a year-round activity pro-A detailed survey of the minor program organization at the comprovincial and national levels be conducted with particular emhilosophy and operation.

Introduction to the Florist Industry

Students cover the field of history regarding the formation of wire service organizations and their structure in the retail flower shop. The students will be exposed to the methods of delivery operation and set-up of floral products in the funeral home and hospitals. Floral delivery and sending and receiving out-of-area orders will be studied.

Jazz History/American Popular Music 1

This course is a study of the many different musical styles which emerged from New Orleans after the American Civil War. The spirituals, blues, ragtime, stride, traditional New Orleans genre, dixieland, swing, and bebop which emerged between 1850 and 1950 will be examined both musically and socialogically. Emphasis will be placed on the historical development and the musicians and musical elements which fostered and typified each of the jazz styles.

Jazz History/American Popular Music 2

This course is the study of the various Jazz styles which emerged from 1950 to the present. Emphasis will be placed on the development of the musicians, and the musical elements which fostered and typified each of these styles.

Journalism Seminar

The student will research the assigned topic and submit questions for discussion in class. The following week the specialist in that field will conduct the seminar with a discussion period. Students must demonstrate professional research ability and a clear line of reasoning in questions and comments, and be able to summarize and report their findings.

Landscape Drawing 1 and 2

The course will develop the student's ability in graphic communication skills and an understanding of how landscape design relates to the landscape industry. The fall semester shall concentrate on the student's ability to express himself graphically. The winter semester shall aim to develop and refine this graphic self-expression in terms of landscape drawing and design.

Layout and Production For Print 1

Students discover the relationship between the Public Relations consultant and the Graphic Designer. The course introduces basic design principles; logo styles and corporate imagery; basic typography and the psychology of colour and shape.

Layout and Production For Print 2

This course will describe the skills required by a public relations practitioner involved in the publishing of corporate internal and external publications and working with other print media.

Leadership and Group Dynamics

This study of the principles of leadership and effective working with groups will include the theories in current use and their application. The course also provides an opportunity to practice and develop basic communication skills and experiment with different styles of group leadership. The fundamentals of parliamentary procedure and the preparation of constitutions and by-laws of organizations will be explored through an experiential approach.

Leisure Programming 1

This is an introductory course with two distinct components. Each student will learn program planning, implementation and evaluation. In addition, each student will have an opportunity to acquire a St. John's Ambulance Standard First Aid Certificate (or equivalent) and a wilderness Emergency Care Certificate.

Leisure Programming 2

This course will examine the basics of marketing as applied to recreation; focus upon the acquisition of winter outdoor skills through a residential seminar; and provide the opportunity for students to acquire the Cardiovascular Pulmonary Resuscitation Basic Rescuer Award and the Emergency Skills Certificate. In addition, all students will actively participate in presenting a variety of recreation activities.

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Lighting Technology 1

This detailed course in the use of the lighting instrument will begin with elementary electricity, the physics of light and end with the instrument itself and its uses. Emphasis will be placed on the practical.

Magazine Writing 1

This course will consider the skills required for writing and editing for general, business, professional, corporate and government publications.

Magazine Writing 2

Students will research and write articles for in-class magazines covering general, business and corporate fields.

Students will be expected to initiate, plan, research, write and edit actual in-class magazines, choosing their own reader audiences and magazine titles. This lab will coincide with Magazine Layout and Design.

Major Instrument

This is a continuous six-semester , course comprised of 1/2 hour private lessons each week to develop the playing potential of the student on a personal basis; guide the student through problem areas; instill a thorough understanding of production methods and techniques; develop the student's personal sensations and growth formula to attain a higher awareness and displaying level. This course is complemented by Major Instrument Workshops which use lectures, labs, private lessons among instructional methods.

Marketing Communications

The student will perform a wide variety of tasks in public relations, advertising, marketing and communications for a ski area operation. The students can expect to spend time on the basic principles involved in creative development of communication and market strategy as well as the selection and preparation of copy, photographs, layout and editorial copy.

Marketing Design Objectives 1

This course exposes the student to the general principles of marketing as they apply to the production of consumer goods, to printing for package materials and to the designer or design studio.

Materials & Processes 1

This is an intensive course in materials & processes for Industrial Design. The study of physical properties of materials and processes by which they are formed will include practical exercises in forming and joining metals. There will be field trips to a variety of industrial fabricators to reinforce individual course topics.

Materials & Processes 2

A continuation of Materials & Processes I with emphasis on Plastics & Composites Technologies and applications.

Materials 1

Encyclopedia of finishing materials and their method of application.

Media of Print and Broadcast

This broad study of print and broadcast media in Canada, including daily and community newspapers, magazines and news services, radio and television stations, reviews the philosophy and practices of journalism. The concept of press freedom, ethics and social responsibilities of the media are examined.

Model Making

A model making course for the Industrial Designer using hand tools, power tools, and woodworking machinery to form a variety of materials. Emphasis upon safety and craftsmanship is incorporated in a range of model making activities.

Movement 1

The first step in preparing an actor in terms of movement consists of correct body alignment, strengthening and flexibility exercises leading to an awareness of the body as a vehicle for self-expression.

Movement 2

This course is a continuation of Movement 1. Techniques such as falling, rolling, dragging, etc., will be introduced with some improvisation done using the aforementioned techniques.

Movement 3

This class will include periods of extended activity with periods of relaxation. Each class will begin with general exercises designed to lead participants through a range of movements varying in rhythm and dynamics.

As students increase the range and vocabulary of movement they willde. velop individual and small group studies where they can expand the physical craft of the actor.

Movement 4

This course will strengthen the skills introduced in Movement 3.

Nature of Crime 2

For approximately 5 weeks this course will concentrate on the typology of crime studies. Factors discussed will include which "wrong" should be considered "crimes"; the violence of conditions justifying the violence of persons; and other contemporary moral issues.

News Photography 1

This course will develop the skills required to produce and judge a good news photograph. It will concentrate on the skills of photo-journalism.

Newspaper Layout and Design

This course will cover the essentials of newspaper and magazine design and typography through the interaction of type and illustrations. I will deal with layout and design of news and feature pages in tabloid and metro page size newspapers and magzines.

Newspaper Reporting 1

This is the second in a series of basic writing courses designed todevelop reporting and writing skills needed in all areas of print journalism Emphasis is placed on interviewing techniques—gathering information for news stories, feature articles, etc.. both in person and by telephone.

Newspaper Reporting 3

This course will develop writingediting and reporting skills for print journalism. It aims at rounding out the student's ability to handle the basic function of newspaper reporting with minimum of supervision. The course is linked' to Newspaper Reporting 2, is which students will be required to produce weekly copy for the Journalism Department newspaper COVEN. The first portion of the course will review the basics of writing and reporting.



whition 1 (Equine)

Learning the fundamentals of aniautrition will help you understand ed nutrients, why the horse needs ern, where and how he obtains them thow he uses them. Digestive physalogy, lab tests to ensure nutrient adeact, and identification of common an and feed supplements are other act areas covered.

Hutrition 2(Equine)

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Using the theoretical knowledge of spirits and nutrient requirements acpured in Nutrition 1, students will aw apply this knowledge to ration fimulation. Commercial feed prodacts and nutritional diseases and ailacts will also be investigated. Performanagement and hay quality with taught.

Office Procedures (Travel and Tourism)

This course will cover general ofix procedures in relation to wholesale ad retail travel offices, including the recessary skills and techniques for tephone transactions and telephone ales.

Operating and Engineering 1 and 2

Students will learn the essential enparing concepts of the radio studio support, from all kinds of microdones to different types of consoles tihin the structure itself. As well, the succepts of correct operation of the edit will be discussed. Students are apeted to understand the various factions of each piece of equipment addhe techniques of sound engineerage

Outdoor Education/Recreation

This course will provide an awaresofthe outdoor education/recreainfield through classroom Advement and participation in a resstated outdoor skills seminar. Topics tude: outdoor leadership principles, conservation Authorities, Provincial Ark Systems, Parks Canada and the Valonal Parks System, organized Staping and evaluation, current envinamental concerns, and professional excitations and organizations of parfular interest to outdoor recreation-

Package Design 1

The course will provide students with a working knowledge of design tenets and theories and, through a tiein with Packaging Graphics 1, the application of design elements to packaging and advertising graphics.

Packaging Graphics 1

This course introduces the student to client-oriented design. Packaging Graphics has constant tie-in projects in Packaging Design 1.

Packaging Graphics 2

Using design tenets previously discovered in first semester courses, students apply these theories, together with other in more advanced techniques, to projects relating to the design and marketing of packaged products.

Packaging Research 2

Direct contact with packaging manufacturers and users, in this research, provide students with an opportunity to meet with future clients and employers.

Packaging Studio Methods 1

Students become familiar with many of the materials used in package design (felt markers, various pencils, drafting tools, etc.). They learn to present a piece of design work to a client, how to present themselves, simple studio costing and numerous other requirements for doing a good piece of saleable package design.

Packaging Studio Methods 2

This course presents an introduction to some of the demands in finished artwork for high-speed reproduction. The course also continues to offer insight into the regular methods used by professional designers in meeting the often urgent needs of clients and a thorough knowledge of the different printing processes.

Packaging Technology 1

This is a basic mathematics course with the emphasis placed on visual geometry and volumetric comparisons, application of mathematics to area, volume and weight problems in packaging. The student will also learn how to use a perfect calculator to solve most mathematics problems.

Packaging Technology 2

This is an introduction to the simpler mechanical components and principles encountered in packaging machinery and an application of mathematics to technical problems in the packaging of consumer goods.

Packaging Typography 1

Basic mechanical knowledge is necessary before students can actually design with type. Emphasis is placed on these technical areas. Hand lettering for both layout and reproduction, and the ability to identify, indicate and specify type in the classic faces are also developed.

Packaging Typography 2

This studies further typographic design, with special reference to the demands of packaging graphics, type mark-up, special photographic distortion techniques and the identification of specific type styles.

Performance 1

Although the major portion of the work will be the rehearsal of two character realistic scenes, part of this course will be devoted to related exercises and improvisation. Each of the scenes will be taken through the key phases of rehearsal up to the "first run through" stage. There will be a presentation of the scenes to the faculty at the conclusion of the course.

Performance 2

This course will involve a concentrated study and performance of a series of interrelated scenes of a particular play, to include individual and group process, discussion and performance.

Performance 3

Students will rehearse a realistic play. In addition there will be discussion and exercises. Each student will be responsible for developing his role on his own. The instructor's main function will be to lead the student toward the development of a constructive working method.

Performance 4

This segment of Performance will be devoted to improvisation. The course will explore what improvisation can and cannot do by trying out APPLIED and CREATIVE ARTS



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the various forms it may take. The outcome of this segment will be an improvisational workshop wherein the various forms are given outward manifestation.

Personnel Administration (Arena)

This course will examine the components of the management process, as they affect arenas. It will analyse the various stages of employee relationships with emphasis on human relations and effective supervision. Case studies and other resources will be used to facilitate the application of various theories to the practical aspects of arena management.

Perspective and Rendering 1 (Interior Design)

Emphasis will be placed on pen ink, pencil, water colour and full colour rendering for good project presentation. In conjunction with the above, the following aspects will be reviewed: two-point and one-point perspectives, shade and shadow in plan and elevations, shade and shadow in perspective and reflections in perspective.

Perspective 1

Work in the basics of perspective will be applied to drawings in line of objects and products. Studies in lighting will introduce techniques in tone. Tonal analysis and rendering will be studied in context with form, surface and reflection.

Perspective 2

Perspective studies will be applied to architectural forms, the figure in relation to objects and environment. The conversion of given graphic reference to new concepts will be studied along with the adaptation of figures and objects to given locale. Project rendering will be in line, tone and colour media. Correction of photographic reference distortion by graphics will be studied.

Philosophy of Law Enforcement 1

This course is designed to thoroughly familiarize the student with working conditions and prejudices to be encountered in law enforcement and security jobs.

Philosophy of Leisure

Students develop their own "philosophy of leisure" through an introduction of concepts of leisure and recreation, their effect on the delivery of leisure services today, and in the future. The major factors affecting leisure patterns and the theories of contemporary authorities relative to current and future social, economic and other conditions are examined.

Photography - A/V Techniques

Students will become proficient in the operation, maintenance and applications of audio-visual production and presentation equipment. Students will also practice A/V techniques and show that they are able to properly assemble, store, handle and, if necessary, repair the non-print media they must use.

Photography - Applied 1

In this history of photography, tracing its evolution from the time of Aristotle to the present, the development of photographic processing and of the basic Meniscus lens to the current complex compound lens will be covered. Lectures, demonstrations and practical assignments will be the format of this course.

Photography - Applied 2

This course reviews the problems of on-location and studio assignments of a more complex nature. Subjects will require a greater dgree of skill in all aspects of photographic techniques. The use of props, the importance of deadlines and the need for an application of composition, creativity and imagination will be covered through lectures, demonstrations, critiques and participation.

Photography - Applied 3

Students will discuss in class and apply in their projects the various skills and techniques essential to a flexible professional photographer. Visits to professional studios are scheduled and students will devote much time to research ideas for their thematic assignments, secure props and apply their skills and imagination for high quality results.

Photography - Applied 4

Students will work toward the preparation of their final portfolio by experiencing various advertising and product assignments. Shooting sessions will be carried on in the College's two studios, will process monitor strips and plot the performance on process control graphs under supervision.

Photography – Business Management

The student will be exposed to the fundamental procedures of small business management and operation. Subjects covered are: management techniques, marketing, time management, advertising, record keeping, office procedures and personal attitudes.

Photography - Colour Process

The common colour processes such as transparencies and colour negative material will be explained through lectures, demonstrations and practical as signments. Colour printing and filtration in the process will be skills the students will acquire and apply in the rest of the program. Maafi and Hope colour processors are used.

Prerequisite: Successful completion of first year.

Photography – Darkroom Techniques 1

This course is a basic introduction to the chemical processes involved in darkroom procedures. Lectures and demonstrations focus on the proper techniques and procedures to follow in film development and projection printing.

Photography – Darkroom Techniques 2

This course will extend the student's knowledge and skills in the control of black-and-white printing and film processing. A variety of processing techniques will be explained and practiced: line film processing, toningposterization, sensitometry, and the Zone system.

Photography – Graphics

This course shows the close relationship of photography to graphic atts (printing) and graphic design (commercial artists). Lectures will introduce the types of reproduction techniques and operations and their inherent problems. This background on reproduction processes will enable the student/photographer to anticipate the requirements of the artist and the printer/engraver.



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Photography - Lighting 1

This course on basic lighting techpres will familiarize the student with a various sources and types of lighta. The student will learn the operaon and maintenance of common types dighting equipment, the effects proteed by natural (day light) and artifid (tungsten) light and will help mufacture lighting accessories such sdiffusers, snoots, cookies.

Photography - Lighting 2

Complex lighting techniques will redemonstrated in a natural progresges from the basic lighting techniques remed in Lighting 1. Lighting techopes applicable to various subjects, relating tungsten lights, are dismissed and demonstrated in the classrem and in the studios.

Photography - Lighting 3

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Through lectures, demonstrations ad practice of various lighting techeques to produce special effects, stuents will learn advanced electronic ash techniques using studio flash auts and accessories.

Photography - Professional Studies

Guest lecturers will demonstrate hir particular specialties and discuss reproblems and difficulties in their id of photography. This series of knonstrations will introduce new chiques and processes for the stuints to apply and/or modify for their mprojects or client demands.

hotography - Studio 1

This course will introduce the stutasts to the technical terminology of hotography and to the identification, renation, and maintenance of photosphic equipment used in studios. Indents will also learn to operate the redium format camera ($6 \times 6.6 \times 4.5$ 106×7) and the characteristics of the facility formed is a studie of the facility of the studies.

Photography - Studio 2

Through lecture and demonstrais, this course will familiarize the adent with the techniques of large binat camera operation, including sements of component parts and wrections or distortions of the image reduced. A good understanding of operation of this equipment is estial to successfully complete the practical assignments given in Applied Photography 2.

Photography - Studio 3

This course will strengthen the student's skills so that a competent approach and appreciation of difficult subjects can be attained using colour and black and white. The student will become familiar with lighting manipulation for the best effect and will learn to use props to attain harmonious design and composition.

Photography - Studio 4

By a series of lectures, demonstrations and seminars, the student will acquire sufficient knowledge to be capable of doing portraiture in both black and white and in colour. Lighting styles and techniques will be demonstrated to show how to achieve special effects.

Photography - Theory 1

This course is an introduction to the theory of light, the composition of light (natural and artificial), its characteristics and behaviour. The response of photographic emulsions to the different types of lighting, and an introduction to basic options (as related to simple and compound lenses) will be followed by demonstrations of lens performance and aberrations. Basic formulae will be explained in relation to optical laws. This course is taught by the lecture method in conjunction with demonstrations by the instructor and student participation in blackboard problem-solving exercises.

Photography – Theory 2

Lectures and demonstrations will expand the student's knowledge and skills pertaining to optical formulae, lens performance and lens types.

Photography - Theory 3

The student will acquire background information on specialized aspects of photography and the theories behind their use. Fields covered are: archival processing, aerial photography, colour retouching on prints and negatives, photo equipment, and medical photography.

Photography - Theory 4

To introduce the student to the concept and practical workout of quality control, lectures and exercises will be given on the monitoring of black-andwhite and colour materials.

Photography For Graphics 1

This basic photography course will take the student through the photographic sequence from camera to darkroom so that the training may be applied to photographic illustrative elements of Graphic Design.

Photography For Graphics 2

Practical basic training and an understanding of the photographer's scope and limits will prepare Graphic students to create concepts designed for illustration by photography. Certain appropriate projects originating in Graphic Design 2 will be photographed by the student to fully understand this application. The value of photographic reference in abstracted and realistic illustration will be demonstrated in relation to the Advertising and Graphic Design program.

Photography For PR Practitioners

This course will cover the basics of photography and how to use as a communications tool.

Photography 1

This course introduces basic photographic techniques and procedures. Students will demonstrate proficiency in operating camera and darkroom equipment and will be processing and printing their own black and white pictures. In conjunction with the AV Media Applications, Introduction course, students will take colour slides for a multi-image show. They will learn to present their pictures using various display formats.

Photography 2

Students will experiment with a variety of advanced visual production techniques using photographic processes. High contrast line film exposure and processing techniques as well as non-photographic methods will be introduced. The student will also produce and present quality photographic visuals that can be used in educational film and video media.



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Plant Identification 1 and 2

This course will provide the student with the background information needed to understand the present system of plant classification and nomenclature. It will involve both outdoor labs and in-class instruction in the identification and landscape use of those woody plants which are hard and commonly used in Southern Ontario.

Portfolio

This is an advanced class in methods of graphic and personal/professional presentation.

Post Production Techniques 1 -16mm

The student will have to complete a 16mm film production. Technical aspects of picture and sound editing are discussed with respect to established procedures in the film and TV industry.

PR Research

This course will familiarize the student with the techniques used in surveys and polls; starching, copy-testing; organizations specializing in this work and how their services are used.

Practical Horse Care 1

Students review the many aspects of horse care and handling including grooming; mucking-out; trimming; clipping; the selection, care. repairing and fitting of English and Western tack; lameness; horse clothing; methods of restraint; T.P.R.; general signs of health and disease; sick nursing; wound care; first aid; bedding materials; stable vices; preparation for travel and loading. Students will be supervised for an additional two hours per week, practicing skills learned in class.

Practical Horse Care 2

This course aims at perfecting some of the skills acquired in Practical Horse Care 1 (i.e. clipping) and will introduce several new aspects of horse care: bandaging; the care, fitting and parts of harness; lunging; braiding manes and tails; trimming and showing. You will be supervised for an additional two hours per week, practicing skills learned in class.

Practical Public Relations 1 and 2

Specialized fields have their own problems and special tools and techniques for solving them. This course provides in-depth analysis of the one and comprehensive practice of the other.

Practicum 1

As apprentice coaches with one of the Centre's chief instructors, students will get involved in the planning of lessons and course development for one group of first-year students and will follow that group's progress throughout the semester. Students will be present each week for the first year lecture plus the two riding sessions. They will assist the chief instructor with class preparation, warm up and setting up of fences.

Practicum 2

As in Practicum 1, students will be apprentice coaches with one of the Centre's chief instructors and learn more about the planning process, developing course outlines for specific topics and revising them on completion of the classes taught on those topics by the chief instructor. Again, students must attend all lecture and lab sessions for the particular group of Riding Skills 2 that they are assigned. In addition, they will act as assistant instructors for a ten-week evening course on Introduction to Riding.

Principles of Floral Design 1 and 2

This course outlines in detail the principles of designing flowers for all occasions, stressing shape or line, scale, balance and colour harmony. The course will also deal with special holiday treatments of flower sale items that are becoming more demanding in the industry.

Production Management 1

In this comprehensive study of business as it relates to Film and Television Production, emphasis is on adapting feature film production organizational methods to documentary film and television shows. This course is directly related to the practical organization of all second-year crews and assignments.

Program Scheduling 1

This is a course in scheduling, programming and promoting the yearround events in an arena, the corporate image and public relations for the arena.

Properties 1

This project-oriented course introduces the student to the art of properties management and development. Students will analyse scripts to determine properties required and learn where to get them and what to do with them.

Property Management and Security

This course provides a detailed study of the role of Property Management in hotels, clubs and resorts. The student will learn the functions and duties of a property manager, which include a knowledge of planning budget and various aspects of security; fire prevention; energy conservation; environmental safety; and waste disposals. Theories of contracts and leases for maintenance of property and operational equipment plus and study of management work methods and an analysis of feasible operational costs and economical alternatives are also included.

Public Relations Lab 1

This is an introduction to the basics of the public relations work situation with emphasis on the development of news awareness and organizational of time and material. Assignments are related to Public Relations Writing I and 2.

Public Relations Lab 2, 3 and 4

These courses will put into practice the various ingredients, procedures and techniques used by the practitioner. First and second year students work singly and in groups to put into practice classroom theory.

Public Relations Seminar 1 and 2

Guest lecturers, panels and group discussions will cover specific situations taken from the experience of the invited experts.

Relations Writing 1

he sis a core subject which anathe styles of writing necessary holic Relations and rigorously dethe techniques to use them efthe techniques writing for print, and TV; proposals, advertising, service announcements and mized correspondence.

Administration

his course studies the various poand their functions in the manent of racetracks. It will include a ment in one of these areas such mul clerk, publicity, racing secn's office, etc.

oroughbred)

Ruing Industry 1 involves a study at many administrative and technispects involved in Thoroughbred ex. Students gain a comprehensive ere of: backstretch activities: conmingmethods: the administration scontrol of afternoon racing; govactinvolvement in the Thoroughiadustry: Thoroughbred history; the selection principles. Also inindinthis course is a two-week upacement at the Thoroughbred

the Drama 1 and 2

Riscourse will be concerned with tecoment of two areas of broading-voice and drama. The course learnine different types of drama the they relate to radio broadcastsawhole, and tackle the practical mole communicating the various sof drama through the use and sulating of the voice.

Laboratory 2

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2

Rudent or group of students will raproduction assignments to research and produce.

News and Voice Training

scourse will study broadcast m with regard to its daily Students will participate in plenewsroom, and each stulotate through all the desks; teather, sports, announcing, and assignment. Students will edit, and announce newscasts on couring each class.

Radio News 1

This course is designed to lay the foundation for writing basic radio news copy. Work will be balanced between theory and practice.

Radio News 3

The course will teach the skills necessary for several kinds of radio news writing; for editing copy and selecting stories for airing; analyse newscasts heard on FM and AM radio stations. Students will look at the question of journalistic ethics, examine CRTC regulations, the history of radio and its psychology and the concept of all news and other new developments.

Recreation Administration

This is a basic introduction to organizational and administrative processes and techniques involved in recreation. The first section will focus on administrative structure; organizational considerations; and policy development. The second section will include legal aspects and liability; the role of computers; and research.

Recreation Facilities

This course will introduce the student to the major recreation facility components found in a community. The process of planning, designing, constructing and operating outdoor/indoor facilities will be covered.

Recreation Finance

In this introduction to the area of recreation finance, techniques and processes involved in budgeting, accounting, purchasing, grantsmanship and fund raising will be examined.

Recreation Personnel Management

An introduction to the leadership requirements of the recreation professional with special emphasis on personnel management. Current theory related to personnel management will be examined and leadership skills will be developed through experiential learning situations.

Refrigeration and Ice Making 1

This is a study in the theory of refrigeration and the components of refrigeration systems, with the emphasis on day-to-day operation and maintenance, and ice-making techniques for the various types of ice.

Rental Shop Operation

This course will focus on the ski equipment as it relates to rental operations.

Reproduction and Breeding 1

A detailed study of reproductive physiology stressing the normal regulation of sperm and ova development, conception, gestation, parturition and lactation are the major topics covered in this course. Considerable time is spent studying the estrous cycle so that proper detection of estrus and mating times are apparent.

Reproduction and Breeding 2

Problems of the broodmare and foal will be discussed. Artificial insemination, breeding the problem mare and basic genetics will also be covered. Students will take a one-week placement at a breeding farm. This will encourage actual working experience during foaling and breeding.

Retail Radio Sales

The student will be introduced to the role of the sales person in radio both for local and national radio.

Riding and Driving 1 and 2

This course will provide the student with the correct basics in English and Western Equitation as well as Pleasure Driving. The riding courses cover such major areas as correct body position, effective aid usage and the psychology of horse control. The driving section will teach the students harnessing techniques, methods of driving, and familiarization with various vehicles.

Riding Skills 1 and 2

Building upon the skills acquired in Riding and Driving this course will offer the opportunity to advance in the areas of either Western or English Riding or Racetrack Exercise Riding. Students will develop their Riding Skills in order to be a more diversified stable manager.

Script Writing 1

In this introduction to the basic skills needed to prepare, organize, and write scripts for film projects, the student will research, prepare, and write outlines, treatments, and shooting scripts, and will prepare story boards and detailed scripts for several proj-



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ects, including all assignments in the first semester Super-8 Film Production Workshop.

Script Writing 3

This course continues to develop journalistic writing skills for Film/TV, as well as writing interviews and researching the area of specific craft formats such as educational, industrial, industructional, PR, etc. In the winter semester it expands into the area of commercials and dramatic formats.

Scripting 1 and 2

In this introduction to the basic skills needed to prepare, organize and write scripts for AV presentations, film and TV projects, students will be responsible for researching, preparing and writing outlines, treatments and shooting scripts. They will also be required to prepare story boards and detailed scripts for several AV projects.

Security Practices

This course will give the student an understanding of Security Practice as it relates to a variety of security settings. Emphasis will be directed towards all aspects of physical security including those factors of internal/external influences, control systems, industrial and commercial approaches to security, and the problems encountered in each. Focus will be given to special audit areas and method of surveying in a security context.

Showing and Judging 1 and 2

These courses will teach you the principles of conformation assessment as they relate to different breeds of horses. The rules, regulations and judging of hunters, jumpers, equitation, fine harness, draft and coaching classes will be covered as well as the preparation of horses for shows and sales. You will also learn to run a horse show, design and construct courses, and you will gain experience working at a major horse show (Royal Winter Fair) in administration, tack booth, or the horse area of your interest.

Singing 1

This is an introductory course in basic singing. The student will learn to work with a piano, become aware of chords and melodies, how to use the voice – being aware of pitch, developing skills in tempo, rhythm, lyrics, the use of the body to create emotion, microphone techniques and repertoire development.

Singing 2

Continuing from the first semester's work, a student will work more extensively on the performance and interpretive aspects: voice projection, awareness of lyrics, use of the body, eyes, face and hands to create emotion, extension of knowledge about Broadway and current music and its performance.

Site Layout and Survey Math 1

Students are introduced to basic land surveying as it is applied to the landscape industry. This includes competence in the use of the basic survey instruments: levels, chains, rods, transits and other associated equipment. Practical labs shall be conducted on each component of the course.

Site Layout and Survey Math 2

This course further develops the student's ability to carry out various grade-related survey functions, including basic cut and fill determination and the setting and control of new (proposed) grades. Also, the uses of a transit or Theodolite are practised as they pertain to the landscape industry.

Ski Area Field Research

The format will consist of visits to a variety of facilities to allow exposure to the various types of operations and the methods inherent in each, as well as providing the student the opportunity to meet with their faculty advisor to plan their major research investigation format.

Ski Lift Operation and Maintenance

The student will develop a knowledge of the design, construction and operation of the various types and styles of ski lifts. Emphasis will be placed on the application of the data, to ensure the most suitable equipment installation for each specific location and requirement.

Ski Lift Operation and Maintenance 2

The training will cover: lift selection and purchases; construction techniques; lift design and operation; maintenance programs; and lift laws and regulations.

Ski Patrol and Risk Management

This course focuses on the role and the function of ski patrol operations and their contribution to risk management.

Ski Resort Food Management

Students study: food and beverage service in a ski resort, principles of food service design and layout; kitchen equipment layout; menu planning; food and labour cost control; and food purchasing.

Ski Resort Personnel Administration

This course will examine the components of the management process as they affect ski areas. It will also analyse the various stages of employee relationships with emphasis on human relations and effective supervision. Case studies and other resources will be used to facilitate the application of various theories to the practical aspects of ski area management.

Ski School Management

This course is designed to provide the student with a thorough knowledge of ski schools.

Snowmaking and Hill Grooming¹

The student will be exposed to the various types of equipment involved in the snowmaking and hill grooming process as well as their uses and the various types of areas in Ontario. The latest techniques in snow control and systematic monitoring of equipment will be combined with equipment usage to provide a total background.

Sound Recording Techniques 1

The student will learn to record high quality sound for film & television productions. The course also will expand knowledge in sound studio recording techniques as well as sound mixing of multiple sound tracks for all media, film, T.V. & audio visual.

Sound Technology 1

How to plan, record, mix, splice and prepare a sound track are all taught in this introductory course. Sudents examine sound effects, make a sound track for a theatre production and learn how to run it.

Gecial Effects 1

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Sudents use, design and build simreflects and learn how an effect proero works. This course provides an roduction to special effects includthe simple effects from fire to mer. The use of rear-projection reens. serim. splitgel, gobos is also cluded.

Suble and Farm Management 1

This course will introduce you to eplanning process involved in degoing and constructing an equine fathy. Topics will include: choosing a ration, stable construction and degen, facility and farm layout, landscaping, and fencing. In addition the ause will also touch on personnel augement, the role of the manager, scheand farm safety, and computer plications with some hands-on experace. Field trips to local farms will suged to support the classroom mate-

Stable and Farm Management 2 Asa continuation of Stable and Arm Management 1, this course exmines the business operation of a Arm facility. Marketing and advertisg, financial planning, management d control, record keeping, labour, Brancing i.e., leasing, buying, rentg, organizational structure, taxation,

alicensing will be some of the topscovered.

ble Management

Students will be prepared to meet stable management requirements of Level 1 and Level 2 Equestrian ' whing Certificate Program. From practical side, students will learn to kout and bed down stalls; groom; care for and repair tack; trim; clip; mage; braid; and take temperature, the and respiration. From the theotical side, students will learn about basics of conditioning and conditang methods; transportation of arcs; trailer safety; the food and being; unsoundness; lameness analis; tech and aging.

Hage Management 1

herole of the Stage Manager will discussed during this immersion size in the functions and duties of Sage Manager, in and out of repreparation, blocking, rehearsal procedures, discipline, technical rehearsals and calling the show.

Still Photography 1

This course will introduce the student to basic techniques in black and white photography. Students will acquire all the necessary skills in photography, geared mainly towards cinematography. It will be demanding on student's technical skills, readiness and personal imagination and creativity.

Still Photography 2

The lectures will build on and refine the knowledge in black and white photography acquired in previous semesters and will expand to colour and black and white slide presentation and location lighting techniques, to enhance the 16mm cinematography course as well as to cover A/V production techniques.

Structure and Finance

A study of the management and financial structures, staff responsibilities, personnel requirements in public and private arenas, and the various legislation affecting arenas.

Studio Methods 1

You will learn all the basic materials, instruments and equipment used by the professional graphic artist. It is a practical training in studio procedures, the presentation of artwork as well as in professional practices and relationships. Initial reproduction methods will be related to techniques, i.e. line, pre-separated art and halftone.

Studio Methods 2

Advanced techniques in cameraready art will be taught in sequence with reproduction methods. Pre-separated and four-colour reproduction will be included. Appropriate projects will originate in the mainly conceptual Design 2 and Graphics 2 courses.

Super-8 Production Workshop 1

Students will acquire the technical capability to complete a series of assignments of increasing technical difficulty. This course continues to develop the technical skills of the students by introducing sound recording techniques, Super-8 editing and sound projectors. Some assignments will intertwine with projects in other courses.

Supervisory Techniques 1

This course is an overview of job responsibilities. Through role playing, field practice experiences and theoretical materials, the student will develop human relations skills and an understanding of the role of a supervisor.

Supervisory Techniques 2

The focus of this course is the creative application of communication and management functions to the supervisor's job.

Systems 1

This course is a broad investigation of systems and module theory with a study of systems, multiples, nodes, bridges, and relationships in Nature, Art & Design, Architecture, and Production; analysis of successful systems and varying definitions of systems.

Tariff and Ticketing 1

This course will teach the students the correct application of the fares published in the NORTH AMER PAS-SENGER TARRIFF (ATPC), part 1, 2, 5, and 6. It will provide the students with the skills required to complete passenger tickets based on these fares and rules.

Teaching Skills 1 and 2

Students will gain teaching experience acting as apprentice coaches with one of the Centre's chief instructors in both arena and stable situations. In addition, they will act as assistant instructors for a ten-week evening course on Introduction to Riding.

Technical Communications 1

This is a course in Basic Drafting Theory as it applies to standard practices for representation of 3-Dimensional objects. C.S.A. practices form the framework of reference. There is a class time of 3 hours per week for lectures, demonstrations and discussions of equipment and techniques.

Technical Communications 2

This course is a continuation and development of Technical Communications 1, with extensive emphasis on design detailing of products in shop drawings. APPLIED and CREATIVE ARTS



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Technical Illustration 1

Students will take a five-hour period of study – generally following a pattern of one hour with the camera, two hours of sketching and two hours of ILP.

Textiles

This is an introduction to the aesthetic characteristics of textiles and their functions in the interior environment.

Theory of Coaching Level 1 and 2

The Ontario Coaching Development Program provides amateur coaches with formal training in the science and art of coaching to improve leadership skills. This program awards accredited certification to successful participants. Topics include the role of the coach, leadership and communication, sports psychology, motor learning and motivation, growth and development, biomechanics, exercise physiology, sports medicine and principles of athletic conditioning.

Theory 1

This introduction to the basic elements of music includes melody, harmony, rhythm and timbre, modern harmony, chord symbolization, chord scale theory and harmonic progression.

Theory 2

This course is a continuation of Theory 1. Melody writing and analysis receive emphasis along with the study of chord function and harmonic analysis. Studies in harmonic progression are continued.

Thesis 1

This course, combined with Thesis 2 (semester 6), gives the student the opportunity to identify a specialized area of interest and pursue an in-depth project encompassing the full design process. Thesis 1 is intended to lay the groundwork for project execution in Thesis 2.

Thesis 2

Thesis 2 is a continuation of Thesis 1 where the student completes the project tasks identified and approved in Thesis 1.

Tourism 1

This introductory course will provide an understanding of the scope of the Travel and Tourism Industry. The student will examine the background of tourism as an industry and will develop a knowledge of motivating needs of the tourist and the many segments of the travel industry.

Tourism 2, 3 and 4

These courses will increase the students' knowledge of tourist destinations throughout the world. Special emphasis will be placed on significant cultural events, recreational facilities and tourist attractions.

Travel Techniques "A" 1 and 2

This is an introductory course designed to teach students the use of the Domestic and International Airline Guides, how to read and interpret hotel reference books/rate sheets, travel information manuals and the correct method of making reservations.

TV News 1

This is an introduction to television news writing. The course will emphasize basic writing techniques for television from on-camera stories to the scripting of film and tape.

TV News 2

The course continues the development of skills introduced in the first year television writing classes. It will concentrate on the basic techniques of television news writing and reporting.

TV News 3

This basic course in the craft of television news production covers all aspects of studio electronic techniques including video tape and film production. Students will produce news and feature stories as well as complete television newscasts. There will be emphasis on the relationship between news content and TV presentation.

TV Operations

Students will be introduced to the basic operating and production techniques for television. Starting with the single camera video recording system, students will progress to the multiple camera facility of the basic television studio. At that time, they will learn to research. develop, crew, and direct simple television productions.

TV Production 2

Students will be given an introduction to writing for television with emphasis on form and format. They will identify their audience, set objectives and effectively use the video medium. They will research and prepare story outlines and shoot scripts. Once ompleted, they will be required to direct their programs or to perform as crew members on other student productions in the colour studio.

TV Production 3

Different aspects of television production and operation will be reviewed and students will be preparing scripts for individual and/or group productions. The type of programs to be produced during this semester will be determined by the class in consultation with the instructor. These programs will reflect the types of production that the students might become involved with after graduation from the Audio-Visual Technician Program.

TV Production, Introduction

Students will review basic television operations to be able to operate television studio equipment and develop and produce simple television programs.

Typography 1

This analysis of current designs and their relationships to historic forms, studies the structure, aesthetics and the psychology that will be applied to proects in hand lettering. Field trips to typographic firms will demonstrate typesetting processes.

Typography 2

With an emphasis on aesthetic quarities and the emotional aspects of the medium, you will be trained in the design application, selection and markup of typography at the layout stage is calculation of final art production.

Voice 1 and 2

This introduction to voice production and physiology will continue to develop over the course of the program. The physiology of speech will run parallel with the practice of basic speech production and will constitute scientific basis for practical, applied voice and speech exercises. The course gives the beginnings of a conprehensive and detailed knowledge of speech and voice production which scarry the students beyond the redaries of the program into their oksional work.

kice 3 and 4

This second year of vocal training is to carry the student farther in ing of the use of the vocal instru-To accomplish this there will be atical work in reading and speaking copied passages. Additionally one ma week will deal with a study of metics designed to develop the stuhearing ability, not only for wirown sounds, but the sound of oth-This aspect of work will also play autin the acquisition of dialects for taracter work.

lork Experience Fieldwork

Students spend a full week (Monthrough Friday) working on an aupyisual production or a technical as part of an organization's or inzution's staff. All students are rerad to be at Humber College one nevery month to present and file mess reports, take part in discusms about their work and participate inv seminars, lectures or technical monstrations which might be arzed on that day.

hiting For Radio 1

his course will feature continuity ting for commercials as well as corawriting procedures for news and MIS programs.

Hing For Radio 2

This course will continue to offer iques of writing begun in Writing Radio 1. The art of writing station Motion and public service anecements will be taught.

hing For Radio 3

This course is a continuation of For Radio 2 with emphasis on topics in commercial writing and sports events.

Business

Accounting Concepts 1

This course assumes no accounting background on the part of the student. It covers the complete accounting cycle with emphasis on the conceptual as well as the procedural elements of the cycle. The course concludes with a chapter on accounting for cash.

Accounting Concepts 2

This course provides a detailed study of the accounting for the various items appearing on a balance sheet, their control and their effects upon related items of income and expense, including accounting differences for each type of business enterprise.

Accounting 2 (Accounting **Concepts and Practice**)

Prerequisite is previous completion of an introductory accounting course such as Financial Recording.

The course covers the complete accounting cycle at a fairly complex level and stresses both theory and application. Practical work will include case studies and practice models. Students will be expected to achieve high standards of accuracy, speed and accounting performance.

Advanced Marketing Administration (Business Administration)

This advanced course represents the final level in Humber's Marketing Program. It includes a Marketing Management simulation which offers an excellent vehicle to refine the many concepts acquired in earlier courses.

Assembler

This course will deal with the Assembler programming language. The student will receive a complete systems review (including interrupts, channel operations, etc.) followed by the study of the concepts of Assembler and the \$360/\$370 machine language. The course will cover the standard and decimal instruction sets (approximately 100 instructions), and analyse DTF and DCB entries, and macro writing.

Assembler 2

Assembler 2 is a continuation of Assembler I and involves writing program applications using VSAM and DAM files. The students will be introduced to MACRO writing and will be required to write their own macros.

Automated Accounting

This course is designed to give hands-on experience in the production of accounting records and reports by microcomputers.

Participants will use software programs for general and subsidiary ledgers for small businesses; and various schedules and analyses required for any type of business organization. Practice will be given in the use of coding and editing techniques. Prerequisites include Accounting 2 and Computer Literacy, or comparable courses or experience.

BASIC

B.A.S.I.C. programming language is widely used today by business for both batch and interactive programming. This course gives an indepth coverage of the language and its use for business applications. Programming techniques for writing correct and well organized programs will be stressed.

Basic Accounting Principles

This course provides an introduction to the basics of accounting. The accounting cycle is covered in brief outline from the introduction of data to the preparation of financial statements. The use of special journals and the general ledger is explained, along with the maintenance of subsidiary ledgers and payroll records.

Basic Business Math Skills

The course covers the basic skills required to comprehend and complete the Business Mathematics course. Review of arithmetic, algegra and some financial math are the backbone of the course

Basic General Insurance

This course is based on the basic course of the Insurance Institute of Canada and is designed to give the Legal Assistant student a broad overview of the general business. While obtaining credit leading to a diploma at Humber, the student will gain recognition and a credit from the Insurance Institute of Canada, by writing two exams set by the Institute which will give the student an additional advantage should they wish a career in the insurance business.

BUSINESS

Business Mathematics

Various instructional approaches will be used to enable the student to pursue and to achieve a satisfactory level of competence in the following areas: arithmetic operations; percentages; basic algebra; simple interest; compound interest; present value; annuities and bonds. This is a prerequisite for Business Statistics and Quantitative Analysis.

Business Statistics

This course covers modern descriptive and inferential statistics. Little mathematical sophistication is required as the course deals with the application of formulas and techniques and not their derivation. Emphasis will be on the recording, analysis and presentation of data, forecasting and decision making.

Buying Orientation

The key to successful retailing is buying merchandise that will appeal to customers, selling it at the right price, and earning a profit for the store. A successful buyer must be alert to the needs of his customer, and must have contact with reliable suppliers and manufact urers. This course will focus on goal setting and the planning required to achieve these goals through basic assortment planning, promotional buying and execution and control of the buying function. The Co-op student will learn to identify buying alternatives suitable for various product lines and store types.

COBOL 1

This course will enable the student to develop sufficient knowledge of COBOL to program complex procedures representative of typical business applications. The concepts and organization of the language will be discussed from an efficiency point-ofview. The majority of common business programming techniques using COBOL will be covered from an applications approach. A case study may be required.

COBOL 2

This is a continuation of COBOL I and deals with more advanced COBOL applications. Language features, such as Report Writer, SORT, VSAM File Updates, and Table Handling will be explored requiring application programs to be written by the student. A case study will be required.

Commercial Law (Legal Assistant Option)

The goal of this course is to continue the development of the study of selected topics in Canadian and Ontario Commercial law in order that the student be capable of working in a law office or other offices where a knowledge of commercial transactions and related law is required.

Computer Literacy

This introductory course will include hands-on operation of microcomputers and the writing and testing of elementary programs in the BASIC language. Students will be introduced to the hardware, software and terminology necessary to a basic understanding of computers.

Cost Accounting 1

This course provides an introduction to cost accounting concepts, including systems for job and process costing. Special problems relating to the application of factory overhead costs will be studied in depth.

Cost Accounting 2

This course commences with an introduction to the budget, followed by a study of the flexible budget. Subsequent topics are the standard cost system, direct costing and cost-volume profit analysis.

Court Procedures

This course involves a study of the procedures related to civil actions in Ontario. The course objective is to familiarize students in the Legal Assistant Program with the practice and procedures of civil litigation (as opposed to criminal matters) in the Ontario courts.

Criminal Law

This course is a study of criminal court procedures in Ontario. The objective of the course is to familiarize Legal Assistant Program students with the practice and procedures in Ontario's criminal courts.

Customer Relations

In the dynamic field of retailing, customer services are no longer confined simply to free parking and delivery. Today the modern retailer must consider such services as consumer credit, storage privileges, special callogues, service, warranties, consultants and food services. In the tough, competitive world of retailing, it may be these extra services that will attract potential customers. Co-op students will examine these various store services and the approaches for different commodities, their function and cost.

Data Base

This course is designed to give the students a basic insight into the essential facts about the nature of a data base, its construction and administration. It also shows that the E.D.P. (Electronic Data Processing) evolution is leading companies with significant E.D.P. operations in the direction of a data base form of information organization. Requirements for a data element dictionary, data security, and a user interface language are discussed.

Dicta Typing

Students will learn the basic procedures for machine transcription with exposure to different types of dictation. Punctuation, capitalization, formatting and proofreading will also be covered. In addition, the course is designed to help students with spelling, word usage, and grammatical skills.

Distribution Centres

Behind every successful retail orgnization is an efficient and effective distribution centre. The purpose of the centre is to gather together merchandise from many different suppliers, and to distribute this merchandise to the retail outlets of the organization as it is needed. This highly organized system is studied through field trips to several distribution centres, in order to understand the processes involved even before the merchandise reaches the receiving doors of the retail store.

Elements of Accounting

This course provides an introduction to the subject of accounting. The full accounting cycle is covered from the introduction of data to the accouning cycle through its detailed recording. Practice will be obtained in the preparation of financial statements, maintenance of subsidiary ledgers and payroll records.

BUSINESS

The objective of the course is to inc an insight into the mechanics of counting so that the student may ine an understanding for reference in asiness situations or as a foundation which he may continue in advanced and of the subject of accounting.

Flements of Advertising

This course offers a basic overview the Canadian advertising scene to-Beginning with an analysis of the everal purposes of advertising, and matinuing with an examination of the arious media available, the students will then consider the steps required to dan, prepare and produce advertising ressiges. Emphasis will be placed on dvertising's advantages and limitaions as a component of the promotion nit, as well as the necessity for and edifficulties involved in evaluating seffectiveness.

Elements of E.D.P.

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This course provides a detailed endy, at the elementary level, of the computer and computer applications in erms of historical evolution, files, towcharting in the relationship to roblem solving, and an introduction programming, using a high level inguage to solve business related moblems. An introduction to systems recepts and to systems analysis is also movided. The student should gain sufinent understanding of computer caabilities and be able to use them to ter advantage in a variety of business pplications.

Rements of Financial Recording

This course is an introduction to accounting and business records. It will over the analysis and recording of musactions, from the use of source focuments up to the preparation of imple financial statements. Emphasis ill be on a systematic approach to the nocessing of business data. In-class factice will range from basic exeris to a complete accounting cycle at a simple level.

Elements of Law 1

This course will provide an introuction to the study of Canadian legal stems with a particular emphasis on belaw in Ontario. The course will amarily concern itself with business w, however, there will be time spent whethe other aspects of Ontario and rederal law. The major objective of

the course is to give the student sufficient understanding of law that they will have some facility to use in whatever type of occupation they may undertake.

Elements of Pension Plans and Group Insurance

A basic review of statutory, and employer-sponsored pension, group insurance, unemployment and incentive plans.

Elements of Systems

This course is an introduction to the techniques of Systems Analysis. It will cover such topics as: concepts of analysis, data gathering, forms and field design, and procedures to implement a computer system. The student, using a case study, tries to improve a typical business system and demonstrate their ability by writing reports and presenting a proposal describing the changes.

Executive Applied Procedures 1

The objective of this course is to develop speed and accuracy at the typewriter and ensure comprehension of typewritten communications including introduction to the use of transcription machines in various areas of business, industry and the professions.

The student will be instructed in the relationship of the professional secretary to the office environment, the reception of visitors, the handling of appointments, and a secretary's duties with regard to public relations.

Executive Machine Transcription 2

This course will introduce material of a more detailed and complex type and will require that the student put into practice the knowledge of format and style gained in Executive Office Procedures 1 and 2. The material will continue to be integrated with the type and degree of difficulty being currently presented in Executive Office Procedures 2. Continuing emphasis will be placed on correct language usage in order to broaden the student's knowledge and ability of special terms and word usage.

Executive Machine Transcription 3

This course will continue to improve the student's facility with transcription equipment, the speed and accuracy of operation, and the knowledge of the various vocabularies used in different areas of business, industry and the professions. Theories of layout, technique and design will be incorporated in the material given to the student, and the criteria used in testing will be the production of usable, mailable material, accurately produced within reasonable time limits.

Executive Office Procedures 2

This section of the course will widen the student's knowledge in typewritten communications, including the taking and giving of office-style dictation both of instructions and simple business communications. Composition assignments will be given and the preparation of quality transcription will be emphasized. The responsibilities of handling the mail, the use of transmittal services, the business telephone, and travel arrangements will be taught. The duties connected with the preparation and operation of meetings and conferences will also be included in this section.

Executive Office Procedures 3

This course will cover such topics as the organization of business data, research, preparation of reports and procedures writing. Instruction on the financial aspects of a secretary's responsibilities such as banking, insurance, investments, payroll, tax records, will be given, in addition to familiarity with simple legal procedures and papers. The student will be encouraged to plan a professional future and prepare for administrative duties, and assistance and guidance in these endeavours will be given.

Executive Shorthand 1

This course is designed with emphasis on vocabulary building, shorthand phrase outlines and maintaining dictation at varying speeds. The student will also acquire the ability to transcribe dictated material within stipulated time periods.

Prerequistie: Shorthand - 60 w.p.m.

BUSINESS

Executive Shorthand 2

This course will provide the student with the ability to take dictation of a variety of business material, transcribed within prescribed times.

Prerequisite: Executive Shorthand

Executive Shorthand 3

This course incorporates the use of business and technical terminology in order to reinforce the student's shorthand vocabulary. Sustained dictation will be incorporated and the student will be encouraged to develop a sound knowledge of shorthand phrases. Progress will be evaluated by the student's ability to take shorthand dictation at increasing speed and to transcribe this material within specified time limits.

Facilities Planning and Layout

This course outlines and allows familiarization with techniques to allow analysis and development of effective plant and office layouts. Material handling requirments will be analysed considering the production requirement and the facilities necessary to achieve it at least cost.

Intermediate Accounting 1

This course will cover, in more depth, the introduction to accounting previously covered. The emphasis is on accounting theory and concepts and an analysis of the special problems that arise in applying these underlying concepts to financial accounting.

Intermediate Accounting 2

This course is a continuation of Intermediate Accounting 1, placing emphasis on accounting theory and conducting an in-depth study of the analysis of special problems that arise in applying these concepts to financial accounting.

Internship

There's a challenge to be met in retailing – to fill the gap between someone who wants something and someone who has something to sell. The best solution to this puzzle is the game played by fourth semester Retail Co-op students in trying to plan a new store in a new location for their company. The strategies used by the students reflect the experience gained in their placements, linked with the theory they have been studying in classes. In the final market research report the students can demonstrate that they're up to the challenge!

Introduction to Accounting 1

This course assumes no accounting background on the part of the student. It covers the complete accounting cycle with emphasis on the conceptual as well as the procedural elements of the cycle. The course concludes with a chapter on accounting for cash.

Introduction to Accounting 2

This course provides a detailed study of the accounting for the various items appearing on the balance sheet, their control and effects upon related items of income and expense, including accounting differences for each type of business enterprise.

Introduction to E.D.P.

A study of Electronic Data Processing methods, capabilities, applications of devices, methods of manipulating data, and to provide a basic understanding of the relationship between hardware and software.

Introduction to Income Tax

This course provides a study of current income tax legislation by reference to the effective Income Tax Act. Federal and Provincial Income Tax laws, as they affect corporations and individuals, are covered.

Introduction to Programming

The student will be introduced to the concepts of problem solving and programming for use in the business environment. This course provides the foundation necessary for success in subsequent programming courses. Through the use of PL/I the student will learn the basic elements common to all business programming language and will be introduced to programming techniques essential to business applications.

Introduction to Systems Analysis 1

You will study the nature of the systems concept and how it is used in the business environment. Other topic sinclude manual procedures, forms design and control, and the design feasibility of installing or expanding a computer system.

Inventory Management Principles

The major purpose of inventory management is to ensure that the right merchandise is stocked in the right quantities at the right time. This course examines the mechanics and decisions involved in this process. The importance of inventory management is stressed through examining the costs involved in having either too much, or too little stock. Forecasting sales, planning the merchandise mix, ordering techniques and actions to be taken on fast and slow-moving merchandise are examined in order to understand how to get in and out of a season profitably.

Legal Secretarial Procedures 1

This course is the prerequisite for the advanced legal secretarial procedures for the preparation and use of a variety of basic legal material from both verbal and written instructions, rough drafts and machine transcription. Topics covered include: use of basic reference sources, legal correspondence, memoranda, accounting routines, general commercial documents, wills, and legal terminology.

Emphasis will be on the application of knowledge to produce usable material, and an understanding of the related procedures.

Prerequisite: Simulated Office Environment 1 or equivalent; 50 gwpm (within 4 errors) minimum.

Legal Secretarial Procedures 2

This course studies the terminology, documents and procedures in the area of real estate and corporate. Specific topics include steps on a real estate transaction for both purchaser and vendor, deeds, mortgages, correspondence and statements of adjustment.

Emphasis will be on the use of knowledge and the exercise of judgment in the preparation of material from written and verbal instructionsrough drafts, and machine transcription.

Legal Secretarial Procedures 3

This course studies the terminology, documents and procedures in the area of civil litigation, family law and estates. Specific topics include steps on activilaction, on a matter, in matri-

Emphasis will be on the use of towledge and the exercise of judgnent in the preparation of material for written and verbal instructions, such draft and machine transcription.

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This course provides the student inthe review of the theory and general detaion, along with an introduction to general terminology from a law office. Particular emphasis will be given to the learning and creating of shorthand offices for basic legal procedures. toether with wills.

Prerequisite: Shorthand - 60 s.p.m.

Legal Shorthand 2

The continuation of the legal shorttandcourse will provide the student with the ability to take dictation with emphasis on increasing vocabulary and speed. Real Estate is the principal use of expertise stressed in this course. Sustained dictation will also be introduced in this portion of the murse.

Legal Shorthand 3

Litigation and corporate language will be emphasized in this last segment of the legal shorthand course. Business and technical phrases will also be underscored. Evaluation of progress will be based on the student's ability to take factation at sustained and increasing ates of speed for a stipulated period of time.

Managerial Accounting

This course provides an introducbin to some of the financial tools vailable for use in managing a busiress. It is concerned with the use of firencial information rather than the accumulation of financial data. The principle areas studied are: an introduction to cost accounting, funds flow, budgeting and consolidations.

Manufacturing Operations

This course provides an overall new of production operations mangement. The major areas covered will be production planning, production control, plant layout and materials and ling, methods analysis and motion ad time study. The objective of the course is to give the student a working knowledge of the production aspects of a manufacturing organization within the operations department.

Marketing Administration

The planning of alternative marketing strategies is essential to successful business. Students will learn to use management techniques and skills currently being employed by leading companies so as to critically evaluate these strategies and make basic management decisions. As advanced management simulation presents realistic marketing problems to students for analysis and solution.

Marketing Research 1

The course will examine the role of Marketing Research as a tool of the marketing process. Emphasis will be placed on the basic concepts of research designs, implementation and data analyses. The course will provide a foundation for the advanced Marketing Research 2 course. A major project will provide the opportunity to apply the learning to a real business situation.

Marketing 2

Marketing 2 is a continuation of Marketing 1. On completion of this course, students will be able to: demonstrate an understanding of marketing planning; formulate a marketing mix; evaluate a marketing effort.

MathPac/AlphaSort

The student will learn to use specially designed software packages for numeric and alpha records processing. Hands-on applications of advanced techniques will enable the student to understand the many capabilities of alpha and numeric files.

Medical Administrative Procedures

The course provides an introduction to administrative procedures in today's technological office environment. It is designed to provide an understanding of how offices operate and the various functions people in an office perform.

Emphasis is placed on developing supervisory techniques to become more effective in working with people, and handling administrative responsibilities related to executive secretarial positions.

Medical Machine Transcription 1

This course provides transcription practice using basic medical vocabulary material. The emphasis will be on good transcription techniques. Rules of punctuation and grammar will be reviewed.

Prerequisite: Keyboarding - 50 gwpm (within 4 errors)

Medical Machine Transcription 2

This course is a continuation of Medical Machine Transcription 1 and provides increased specialized medical vocabulary taken from Hospitals, Worker's Compensation and doctors' files. The objective is to increase the student's accuracy and speed on transcription equipment.

Medical Machine Transcription 3

This is a continuation of skills acquired in Medical Machine Transcription 2. The emphasis will be on transcription from tapes providing exposure to multi-cultural accents. This authentic material comes from Hospital medical records departments, clinics, and doctors' offices.

Medical Office Procedures 1

The areas covered in this course are career opportunities, telephone procedures, appointment scheduling, reception, OHIP billing, preparing medical histories, lab reports, etc. The student will be given simulations utilizing medical terminology.

Medical Office Procedures 2

The content of this course allows the secretary to apply the knowledge acquired in Medical Office Procedures 1. Workers' Compensation Board claims, and banking; making deposits, petty cash, daily earnings, records, etc.

Medical Science 1

The student will be introduced to the many word elements that combine to create medical words, phrases, plurals and abbreviations in current use. Radiology, nuclear medicine and oncology require specific terms which will add to a fast growing medical vocabulary. The body as a whole and musculoskeletal systems mark the beginning studies of anatomy and physiology and the semester ends with the analysis of a medical paper, to illustrate how medical words are used by the members of the Profession. BUSINESS

Medical Science 2

Study of the body systems continues from integumentary through cardiovascular, blood and lymphatics, respiratory, digestive to psychiatry. Pharmacology relating to pathology in each body system, adds to the growing knowledge of the medical language. Skill in speaking, writing and understanding terminology is stressed.

Medical Science 3

The remaining body systems, nervous, genitourinary, male and female reproductive, endocrine and special senses, along with the pharmacology and pathology of each, completes the study of medical science and the building of a human being. The graduate will have acquired medical language skills.

Methods Improvement

A look at the tools, techniques and philosophies behind the various programs existing in business and industry that attempts to achieve improved work methods. Whether called methods improvement, work effectiveness, methods, analysis, cost reduction, value analysis, systems and procedures or suggestion system, the title doesn't matter. They all have the same ultimate goal—more effective working methods. In today's business and industry, being cost-conscious is a necessity.

Notetaking For Business

This course provides a rapid method of notetaking by use of a combination of longhand letters and symbols. The student learns the complete theory and is able to take simple dictation, which is transcribed at a typewriter in a simulated office environment.

Prerequisite: Keyboarding 40 gwpm (30 nwpm).

Office Administration Procedures

This course provides advanced training in medical office procedures, specifically in handling the administrative responsibilities related to secretarial positions in doctors' offices, hospital departments, medical clinics and pharmaceutical firms.

The objective of the course is to develop administrative skills with emphasis on techniques to become more effective when working with people.

Office Communications Networks 1

The purpose of this course is to give the student an in-depth exposure to developments and skills that will be vital to meeting the increasingly demanding job market requirements of the automated office of the 1980s. The concepts part of the course has been designed to present the latest technological innovations enabling the student to become conversant with the most important trends and terminology in the word/information processing area.

Prerequisite: Word Processing and Concepts 1

Office Communications Networks 2

This course is designed to complete the student's detailed knowledge of word/information processing. Consideration will be given to input/output techniques (voice systems and OCR) as well as reprographics. The problems involved in the installation and implementation of a word processing system will also be explored, with respect to systems, analytical considerations, ergonomics (word-space and environment), staff training and word processing centre management.

Office Procedures

Students who enroll in this course will learn a number of office procedural skills and when to apply them. Topics will include filing procedures and systems, postal services, telephone services and techniques, and human relations.

Orientation to Retailing

Looking at any business street you will see stores of all kinds—department stores, clothing stores, variety stores, furniture stores and many others. Each is a retail outlet or store. In this course, Co-op students will study the history and development of various types of retailing, as well as learning about future opportunities in the retailing industry.

Personnel

As an introduction to personnel administration, this course covers a wide range of personnel topics. Emphasis throughout is to illustrate how line management can effectively utilize personnel concepts and techniques in administering the human resources of their respective operating area. As a result of this course students should be aware of personnel policies, procedures and programs as a staff function and their accomplishment as a line responsibility.

PL/1

This is a continuation of Introduction to Planning and deals with the more advanced aspects of PL/1 the language. Topics such as record 1/0, indexed sequential and random organization for business applications will be covered.

Portfolio Presentations

For the preceding year, the Retail Co-op student will have been involved in an in-depth study of retailing through class training and the challenge of on-the-job work experience. This course will examine audio-visual techniques and seminar-planning to prepare the student for a formal presentation on the subject of their specific placement location. Seminars will be presented before a team of evaluators composed of students, teachers and personnel from the retail industry.

Principles of Purchasing

This course provides a comprehensive study of procurement practices and policies used by purchasing departments. The major areas covered will be the purchasing functions, purchasing and management objectives, purchasing systems, inventory and materials management, quality assurance, price analysis, selection and evaluation of suppliers, planning and forecasting, purchasing ethics and value analysis.

Programming Fundamentals

In this course the student will be introduced to the concepts of problem solving and programming for use in the business environment. This course provides the foundation necessary for success in subsequent programming courses. Through the use of BASIC you will learn the elements common to many business programming languages and be introduced to programming techniques essential to business application.

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This course teaches the multi-faced skills which constitute a good prommer. Included are topics on how develop problem-solving skills. how analyse design and write effective merans and once the program is much how to effectively test and dethe program. Although not a muse in programming, a number of rogramming assignments will be used apply the various techniques disresed.

Auantitative Analysis 1

This course provides the study of and sophisticated mathematical addls that can be applied to business mations. These models are selected in their applicability to the various inctional areas of business – producon, finance, and marketing. The purtes of this course is to prepare the events for the use of practical math approvide the prerequisites to Quantitive Analysis 2.

Real Estate 1

The objectives of this course are to me the student experience in Registry mice procedure in Ontario and congancing practice in Ontario in order tatthe student may be capable of morking in law offices or other offices there knowledge of conveyancing is equired. It is anticipated that the stuent will work under the supervision f asolicitor.

Prerequisite: Legal Assistant's Proram approval

kal Estate 2

The objectives of this course are to the students experience in the and Title Procedure in Ontario tother with a knowledge of condomiems and landlord and tenant roblems. The course is designed so with student should be capable of withing in a law office or other office mere a knowledge of land titles probure is required. It s anticipated that emajority of students will also take the last of the student will also ancipated that the student will work also the supervision of a solicitor.

eceivables Management

This course is designed to give the Menta working knowledge of the technical area of the credit and collections function. Students will acquire a broad background which will enable them to appreciate the theoretical and managerial aspects of credit and collection, which rely on related abilities.

Receiving and Inventory Procedures

Accuracy in record-keeping and a precise system of documentation are essential in the successful management of inventory in a retail store. This course will describe the procedures followed as the merchandise comes into the store, is received, and placed on the floor for presentation to the customer.

Records and File Architecture

This course is designed to show the student how to analyse, plan, design, implement and use automated record/ file keeping and reporting systems. The student will be exposed to numerous variables ranging from information sources to update considerations.

Retail Accounting

Accounting is a fundamental key in understanding the performance of a retail business. This course follows the accounting cycle as it relates to the retail firm. The student will learnthe procedures used in formulating financial statements, and through the experience of reading and analysing balance sheets and income statements and will understand the basic adjustments required to run a retail business at a reasonable profit.

Retail Advertising and Promotion

Advertising and promotion often borrow the language of war. We wage promotion campaigns and aim our advertising at a target market. We plan strategies and force the competition to react with a defensive plan. It's a tough, competitive world, and the retailer must meet the opposition with careful analysis and be able to coordinate wise promotional decisions. The student will study the production of various retail promotions, with attention to scheduling, evaluating and working with experts in the field.

Retail E.D.P.

This course presents an introduction to the computer as used in the retail environment. Consideration will be given to various hardware such as CPU, direct access devices, terminals, POS, computer output microfilm, etc. Since software is needed to successfully implement the hardware, this aspect of the computing industry will also be considered.

Retail Mathematics

Math is very much a part of the science of retailing. Fortunately, it is a skill which virtually anyone can master with a little patience and practice. The Co-op student will learn the keys to understanding how retailing principles work in order to generate a profit.

RPG 2 (Report Program Generator, second edition)

This course provides instruction and experience in a variety of business applications using the RPG 2 language. Exposure to the language will be through lectures and programming applications ranging from simple reporting programs to the more complex area of full processing.

Sales and Selling Skills

Success in the retail business depends largely on salespeople. Many kinds of merchandise might sit on the shelves forever without sales people to show customers how products meet their needs and wants. Selling is an art, but it is an art which can be learned. The Retail Co-op student will learn the necessary skills in order to successfully follow each step of the transaction, from the initial approach to the customer, through to the closing of the sale.

Sales Promotion

This course provides the student with a knowledge of the tactics used by businesses today to stimulate increased sales and promotional activity, both at the consumer and trade level. Emphasis is placed on consumer products and services, although some attention is paid to industrial promotion. The objective is to develop a familiarity with a host of different types of devices that are available, as well as an ability to compare and evaluate their relative effectiveness.

Selling/Sales Management

Management in a retail firm has the responsibility of getting things done through people. This is accomplished through staffing, training, and motivating those who make up the firm. This

course has been designed to give the Co-op student background information on the problems involved in staff scheduling and sales staff productivity. This second course in sales will emphasize the management of human resources through analysis.

Small Business Management

This course has been prepared for students who someday may be owners and/or operators of independent businesses.

Starting a New Business

On completion of this course the student should be conversant with the mechanics of small and new businesses; have developed a logical, analytic and practical business plan, and to be in an advantageous position to consider and evaluate a new business venture.

Store Planning and Merchandising

The job of creating a unique personality or store image for the retail establishment is much more complicated than it used to be. The customer of the '80's does not want glorious extravaganza, but convenience and honest value. The object today is to show merchandise and enhance its selling qualities through methods of grouping and lighting with the aid of colour to produce attention-catching selling space. Students will analyse the image building process and space productivity in order to relate store planning and merchandising to customers' shopping habits and preferences.

Systems Control Functions

This course is designed to give the student an understanding of the basic concepts of an operating system in a mainframe environment (IBM) with regards to 'virtual' characteristics, multiprogramming, and jobstream processing. Actual Job Control Language (JCL) statements for DOS (Disk Operating Systems) and OS (Operating System) systems are also covered.

Telecommunications 1

The student will learn the history and the basics of telecommunications, including an introduction to PBXs, interconnection and the roles and services of some of the vendors. How telecommunications will affect the Office including an introduction to electronic mail and local area networks (LANs) will also be discussed.

Typing 1

In this introductory course students will learn a structured method of typing. Introductory typing encourages accurate keying of numbers and symbols as well as letters, thus developing a sufficient skill in typing for personal use and building a foundation for further development of the skill.

Typing 2

Students enrolling in this course will expand their typing and communication skills. The content of this course will include: centering, tabulations, duplicating, correspondence, manuscripts, typing of forms and speed building.

Visual Merchandising and Display

Display designers are integral members of modern merchandising teams. The way in which goods are placed on viewin a store can be the key to increased sales. Because many independent retail stores do not have specifically trained display personnel to arrange their merchandise in a professional manner, it is often necessary for the owner or manager to peform this function. This course is designed to give the student the practical how-todo-it basics of display. The student will examine the creative planning, costing and actual building of the display, and participate in practical workshop assignments to experiment with various display techniques.

Wills and Intestate Succession

This course is designed to familiarize the student with some of the language of wills, estates and succession duties, including the documentation involved, the procedures and some relevant substantive and procedural law. The objective for the student is to be able to effectively seek employment in any one of the several fields involved in processing the estates of deceased persons, including trust companies and government departments.

Word Processing

This course provides a general introduction to the theory of word processing, as well as hands-on instruction. Students are introduced to all basic operations, as well as the more frequently used advanced operations. Typing skills are a prerequisite.

Word Processing and Concepts 1

This course is designed to provide each student with word processing concepts, the resulting effects on the office of today, including word processing and hands-on experience, electronic mail, document storage and retrieval systems.

Prerequisite: Kcyboarding - 40 gwpm minimum (30 nwpm).

Health Sciences and Human Services

Abused Child, The

Child abuse has become a serious problem in our society. This course will focus on some of the common reasons why it occurs. We will also discuss the signs that teachers can look for when they suspect abuse and what the responses should be.

Adaptation Nursing 2

This course deals with complex health problems. Students will increase their repertoire of approaches and skills required to support or modify maladaptive responses for various age groups. Moral and ethical issues related to complex health problems will be explored.

Adaptation Nursing 3

This course introduces the student to major health problems. Appropriate nursing interventions for major maladaptive responses will be discussed.

Administrative Procedures

Students will become familiar with the basic principles and procedures of administering a nursery school or day care centre. Special attention is given to the requirements of the Day Nurseties Act. A hypothetical day care centre will be created and procedures, problems and concerns common to the set up of new schools will be explored.

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This course explores and examines nethods of working with preschool didren with special needs in the comaunity, home and school. Students all learn to be an effective resource consultant to classroom teachers; esrolish priorities and coordinate programs in the home and school: support prents in handling and overcoming difficulties; and, develop liaisons with other agencies serving the family.

The course assignments will inwhe work with children, their families, teachers and other professionals. Each student will be responsible for locating appropriate families and obtaining permission to work with them.

After School Programming For 6-10 Year Olds

Many day care centres now provide after-school care for the school-age child. The skills and needs of this age group differ from those of the preschool child. This course will focus on the kinds of activities that would interest the child and aid him in his regular school program. Included are activities that deal with fine and gross motor abilities, social games and intellectual games.

Aging Process, The

An overview to the study and theories of aging, it will integrate concepts from physiology, sociology and psychology to focus on factors affecting the aging process. Aging will be explored as the final stage of life on a continuum of human development. Health and health deviations, social and cultural attitudes affecting the elderly will be discussed. An overview of community service delivery to the aged will be explored. The problemsolving process will be used as the method of involvement with the elderly client.

Ambulance Maintenance Operation and Safety

With technological change comes the effect of mechanical, electrical, chemical and structural advances in the field of pre and post- hospital patent transport. An awareness of possible problems and their appropriate preventive measures is essential for successful patient transport. This course will concentrate on vehicular equipment, operations and environmental care.

Ambulance Service 1

This course provides the student with background knowledge in areas of administration, communication and law.

Ambulance Service 2

This course provides practical experience in the ambulance service and in emergency patient care situations in the community. Students will participate in and analyse emergency situations which will form a basis for their professional practice in the future.

Anatomy and Physiology (RNA-OR)

Content is planned around body structure; dynamics and functions; and the traumatic and pathological processes calling for surgical treatment. This helps the student to understand the rationale underlying care and cure processes.

Application of the Rehabilitation Process

This course will be directed toward the theory, processes, systems and resources used in developing an individual program as applicable to the individual's needs and maximum potential. Focus will be on a vocational or other area plan using comprehensive goal planning techniques, including the study of behavioural and performance objective(s) setting. The principles and techniques of behaviour modification will be dealt with, as well as continued emphasis on observation techniques.

Applications in Emergency Patient Care

This course involves a continuation of the field-placement in the ambulance service. This will allow the student additional exposure to emergency patient care settings and allow refinement of practical skills.

Applications of the Nursing Process

This course integrates the theory of nursing process with the clinical application of that theory. The nurse will see assessment, planning, implementation and evaluation as ongoing processes of patient care. In the development of these components of nursing process, the nurse will be developing her skills in: decision making, verbal and non-verbal communication, history taking, sensory perception, making nursing diagnosis, development of patient-care plans, and documentation.

Nurses completing this course will be able to apply the nursing process in their current work setting and relate additional educational experiences to this content.

Assessment and Evaluation

This is a study of the most appropriate assessment techniques for a wide variety of settings and the application of test findings in the design of individual programs. Topics will include the principles and purposes of assessment and evaluation; the characteristics and methodology of assessments; the criteria for assessment selection; and consideration of specific assessment types such as psychometric, physical, performance and work sample measurement approaches. Considerable emphasis will be placed on work observation measurements and work sample assessments.

Assessment of the Well Individual

This introductory course introduces the concepts and methodology which are necessary for the student in the first stage of assessment of the individual's adaptive responses in life. The course consists of four modules: introduction to nursing, Roy's model and nursing process, adaptive modes and holistic care.

Basic Anatomy and Physiology for Nursing

The main objectives of this course are to assist the student to understand the structure and function of the normal processes of life; and appreciate the relationship between cells, tissues, organs and the growth of the human organism in health throughout the lifespan. Principles of the microbiology are also included.

Basic Nursing Practice

This allows the student to practice skills appropriate to the assessment of well individuals across the lifespan. The student will have the opportunity to implement measures which promote wellness and maintain health of selected individuals and their families. Experience is provided in community agencies, including acute and chroniccare hospitals. HEALTH

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Basic Work Skills

You will review activities that constitute basic work skills. Reasons are explored to answer the question why special-needs groups are considered disadvantaged. Concepts of adult learning, specific problems of life skills content and models are also presented. This life-skills approach is contrasted with concepts of job readiness and affirmative employment models.

Behavioural Foundations 1 and 2

Several aspects of human behaviour will be reviewed with an emphasis on the physiological, social and cognitive determinants of behaviour, in the first semester, and on the effects of cultural forces on collective behaviour in semester 2.

Cell Physiology

Cell Physiology will familiarize the student with various chemicals used in embalming, the physiological principles which apply to the movement through cell membranes, and the effects of chemicals found in embalming solutions on cellular constituents.

Child Abuse

This course will focus on some of the common reasons why child abuse occurs in our society. It will also elaborate on the signs that may indicate abuse, and the pertaining laws surrounding this problem.

Child Care Work Methodology 1 and 2

These courses deal with: The child care worker's role; the emotionally disturbed child or adolescent, what his problems are and some of the reasons for this; the relationship sought between child care worker and child/adolescent; practical day-to-day problems faced in child care and ways of handling them; various and sometimes conflicting philosophies of treatment. The emphasis will be on the development of practical child care work skills.

Child in the Family

This is a study of the many aspects of parent-child relationships within the various patterns in which families are organized. These relationships to the development of the child as an individual will be analyzed and discussed. This knowledge will be used by the students in their professional approach to assist the parents in their care as well as to understanding the children themselves.

Child Observation

This course emphasizes objective observational techniques as basic tools for assessing children and developing and evaluating their programs. Students will explore the philosophy behind the regular use of observations and will be given the opportunity to write reports using the necessary writing skills. Topics will include operational definitions and the basic format of individual program plans. A large component of the course will consist of laboratory sessions in the Humber College Day Care Centre.

Child with Special Needs 1 and 2, The

This course will give students a background knowledge of children with special needs. These children may be encountered in a regular/ integrated/segregated preschool or day care setting. It will include observation of early signs of atypical development, the characteristics and demands of a child with special needs. The second semester is an introduction to mental retardation and associated handicaps. Emphasis is placed on definition and classification of mental retardation, causes and characteristics essential for programming and preventative measures and methods of early diagnosis. Teacher skills and attitudes will be a focus.

Child with Special Needs 3 and 4, The

Students will identify and understand a variety of developmental disabilities. Teacher guidelines, strategies and techniques are the major emphasis.

Clinical Field Experience

This field experience in a clinical setting (institutional setting) will depend upon the student's area of employment/interest as well as an area of practice with which the student is unfamiliar. The student will be assigned to a clinical advisor who will act as supervisor.

Cognitive Development: Theory and Practical Applications in Early Childhood Education

This course is designed to provide teachers with current thinking on cognitive development. The major emphasis will be the work of Jean Piaget and how his findings relate to the developing child. The course will develop a theoretical base and will then make a transfer to practice. The majority of class time will be spent in developing approaches for implementation.

Communications 1 (Health Sciences)

Communications is designed to help you develop the writing and speaking skills which become an invaluable asset in meeting the requirements of the College and the Health Science field. You will master basic research and writing techniques and be required to write clearly and simply. You will try to develop a concise, concrete and logical style. You will also learn effective speaking techniques which will give you the confidence to handle the essential tasks required by your job.

Community Field Experience

This field experience in a community setting will depend upon the sudent's area of employment/interest as well as an area of practice with which the student is unfamiliar. The student will be assigned to a clinical advisor who will act as supervisor.

Community Health

All health students will get a better understanding of health as it relates to themselves and to the community. It focuses on the delivery of health care as it relates to local, provincial, and national organizations and settings. This course examines the roles of health workers and, through seminar sessions, helps students consider current health problems as well as preventative, curative, and rehabilitative aspects of health care delivery.

Community Pharmacy Prescriptions

Students will be introduced to dispensing procedures for medications such as will be encountered in retail pharmacy and for out-patient dispeorsing in hospitals. All classes of medications will be available in a model dispensary, and students will be te-

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uired to dispense a prescription, price and maintain a patient record. A sec study approach is adopted to make this more meaning ful. In addition, the student will be required to how the drug regulations pertaining peach prescription. This course is a prerequisite for all second-semester tocational subject.

Community Pharmacy Work Experience

Time will be spent in field placement in a community pharmacy where sudents will participate in all aspects of the role of a dispensary assistant in that setting.

Community Resources

Students will get familiar with many community resources so that they may establish contact with an appropriate agency if and when their services are necessary. The students will become aware of what services are available within their community and how these services can be fully used.

Comparative Studies in Early Childhood Education

There are many different themes and methods dealing with how to teach children. Some of the older and newer theories will be discussed along with the reasons for their importance and their relationship to the method taught at Humber College.

Computer Prescription Records

Students will prepare a minimum of 250 prescription records using computerized pharmacy systems.

Coordinating Resources

This course is designed to help students develop the skills necessary to independently conduct research into specific areas of children's special needs and to effectively communicate the results to others. The course will provide opportunities to integrate program content and to make plans for continued professional developments.

Counselling in Family Planning and Sexuality

This course concentrates on counelling skill in the area of family planang and sexuality using a variety of tramples. Students will combine theby with supervised practice in indiidual and group counselling. The course will be taught using role-playing and micro-counselling techniques. Students are encouraged to develop their own personalized counselling stance and will have to be familiar with the main approaches to sex counselling.

Counselling Techniques 2

The emphasis in this course is on the acquisition of skills to become an effective helper. Several counselling models will be examined and various elements of the counselling process will be practiced through role playing.

Creative Activities Workshop 1 and 2

This course will study the theories behind creativity of young children, focusing on a variety of creative materials. It will help the student plan and establish appropriate stimulating activities for all types of preschool programs. This should ensure a healthy learning environment for the development of the child. Classes will offer the opportunity to learn theory, exchange ideas and practice skills in a working environment.

Curriculum Planning& Resources

Students will be exposed to a variety of tools, techniques, materials and services in the education of exceptional children from 0-12 years of age. As much as possible, this will be practical in nature and geared to improving the teaching techniques of the individual student and broadening the exposure to educational material. Curriculum plans and the use of flow charts will also be studied.

Development of Home Programming

Increasing numbers of children with special needs are being integrated into regular day care settings. Whenever possible, programming in the centre is followed up by individual home programming. This course will provide the student with some of the knowledge and skills necessary for the home component.

Developmental Activities 1 and 2

This course puts the developmental theory into its practical application. Programming for infants, children and adults with special needs, is taught through a multi-faceted approach, using discussions, resource people and a hands-on approach. The use of age-appropriate activities in a therapeutic, educational or vocational mode is a major emphasis. Students will learn to develop a program for individuals and groups at different functioning levels in various settings.

Developmentally Appropriate Activities

The emphasis in this course will be on: reviewing knowledge of developmental sequence and the interdependence of prerequisite skills in all areas of development; assessing the present functioning level of children in each area of development; participation in workshops involving implementation of activities to enhance development of specific skills.

Effective Supervision and Communication

The topics to be discussed include: budgeting, purchasing, scheduling, interviewing and assessing staff, in-service training and professional development.

Elements of Human Behaviour 1 and 2

The basic concepts involved in the study of psychology in general and human behaviour specifically will be outlined. Particular aspects of behaviour are studied to enable the student to understand the patterns within the "normal" range.

Embalming Lab 1

Embalming Lab will involve the use of hypothetical cases assigned in class as well as presentations, by student groups, of cases which have been embalmed.

Embalming Lab 2

This lab will further acquaint the student with embalming techniques. Groups will be withdrawn from scheduled classes for laboratory practice.

Embalming Theory 1

The responsibilities of funeral service personnel are related to the technical aspect. The historical development and theoretical principles will also be covered.

Embalming Theory 2

Embalming Theory 2 will expand on the Embalming Theory 1. Disease processes and their influence on em-

balming procedures will be examined so that the student, after consideration of the theory, can select the most appropriate procedure to follow.

Emergency Patient Care Lab 1

This course will provide students with practical experience in a number of chronic care settings. The lab work is designed so the students can use the theory studied in Emergency Patient Care 1 and develop basic patient care skills.

Emergency Patient Care Lab 2

Students learn in many hospital areas how to care for patients, especially in acute and emergency situations.

Emergency Patient Care Seminar

This course is offered concurrently with Emergency Patient Care 2 and will review the theory and refine practical skills in Emergency Patient Care.

Emergency Patient Care 1

This course introduces the student to the basic principles and skills which form the basis of patient care to be studied in subsequent courses.

Emergency Patient Care 2

Emphasis in this course is placed on the development of an understanding of disease processes and trauma, their basic pathophysiological features, their clinical manifestations and management in the pre-hospital setting.

Ergonomics 1

Progressing from Structure and Function of the Human Body, a scientific study of the physiological, anatomical and psychological aspects of man and his work environment, with particular reference to the rehabilitation setting. This course will consider the interrelation of ergonomics and pharacotherapeutics. Topics will inelude basic principles and language of pharmacology, classification of drugs commonly prescribed, medication and drug action, role of and legal implications for the rehabilitation worker, drug abuse, treatment and prevention.

Ergonomics 2

This course will focus on the prevention and control of occupational injury and illness, property damage, security breaches and environmental factors such as pollution. The basic principles and legal aspects of loss control management and the establishment of general and disability specific safety programs in a variety of rehabilitation settings will be included, as will be a specified program in First Aid training.

Extended Care Programming

Day Care has expanded in such a way that there are often more than just 2 to 5 year olds at a centre. This course explores program ideas for the infant and the school-age child. Also included are additional innovations for the preschoolers.

Family Dynamics

This course will deal with the complexities of family relationships. The role of mother, father and child will be discussed as well as the changing concept of family in today's society. Families with special needs and their problems and pressures will also be covered.

Family Dynamics 1 and 2

This study of the family from a systems viewpoint will include systems theory, the family life cycle, roles, triangles, communication, task accomplishment, feelings, control, power, networks, and reciprocity. Role playing and experiential exercises will be used to develop conceptual and perceptual skills in assessing family dynamics.

Field Placement Practicum

This component of the program provides the students with the opportunity to broaden their experiences beyond those acquired at work or in the classroom.

Field Practice 1 (Mental Retardation)

This course will provide the students with practical experience and observations to introduce them to the services in mental retardation. This is accomplished by on-site visits to different agencies as well as a compulsory four-week placement in an agency associated with the program.

Field Practice 1 and 2

Students will spend one full day each week in a nursery school or day care setting under supervision. They will also do a one-week block placement in the Humber College Day Care Centre and in the Humber Developmental Centre.

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Field Practice 2 and 3 (Mental Retardation)

As a follow up to the orientation experience of Semester 1, the student will participate as an assistant to a counsellor in programs for individuals who are retarded or physically handicapped in different community agencies.

Field Practice 3 and 4

The student will spend two days a week working in the community. One of these placements will be in a Metro Toronto day care, the other, in a special setting. In addition, one week each semester will be spent in the Humber College Day Care Centre, and one week of either semester in the Developmental Centre.

Field Practicum 1 (Post Diploma - ECE)

The student will be helped to integrate theory and practice by working in an integrated setting for 105 hours of supervised field placement. Students will observe and analyse the role of the resource teacher and work as a team member with staff to assess, plan, implement and evaluate Individual Development Plans.

Field Practicum 2 (Post Diploma - ECE)

Students will be helped to integrate theory and practice by working-over an extended period of time-with young children and their families for a total of 105 hours of supervised placement. Minimum placement time will be twelve weeks. Students will prepare, implement and evaluate longterm individual developmental plans using input from families, staff and other professionals; help families meet their special needs throughout this long-term placement; and demonstrate, through home visits and professional consultants, the ability to integrate individual developmental plans with the family's perspective.

Field Practicum 3 (Post Diploma - ECE)

The student will integrate theory and practice by applying the cumulative skills from this program. This will involve working as a member of the team, demonstrating leadership, problem-solving abilities and consultative



skills. This field practice will be an opportunity for students to work more inrensively in an area of special interest.

Field Work 1 (Child Care Worker)

The student will spend two days a week in settings for children and adolescents with emotional problems. This will take place in residential treatment centres, group homes, special nurseries, etc.

Field Work 1 and 2 (Early Childhood Education for the Developmentally Handicapped)

Students will spend one full day each week in a day care or nursery school setting. The students will also do a one week block-placement in the Humber Developmental Centre and in the Humber College Day Care Centre.

Field Work 2 and 3 (Child Care Worker)

The student will spend two days a week in settings for children and adolescents with emotional problems. This will take place in residential treatment centres, group homes, therapeutic nurseries, etc.

Field Work 3 and 4 (Early Childhood Education for the Developmentally Handicapped)

The Field Work consists of exposure to several settings including nursery schools for children with mental retardation, facilities providing services to children with physical handicaps and emotional disturbances, as well as programs for infants with special needs and adults with severe to profound mental retardation. In some cases, other placements are considered provided they address the needs of children with exceptional problems. Placements are done either two mornings per week, one full day per week. or one full day and one-half day per week, depending on the need of the placement. There is aso a one week placement in the Humber Developmental Centre per semester and another in the Humber Day Care Centre, either during semester 3 or 4. This course is practical and is one of the core courses of the program.

Field Work 5

During May and June at the end of the first and second years, students will work in settings approved by the program coordinator to improve their teaching skills. The first session will be spent with children who have special needs and the second session with non-handicapped children.

Fieldwork 4 and 5

The student will spend three days a week in settings for children and adolescents with emotional problems. This will take place in residential treatment centres, group homes, therapeutic nurseries, schools, community centres, out-patient clinics, etc.

First Aid & Health

The aim of this course is to enable the student to deal with emergency situations as well as creating an awareness of the basic considerations of health and illness.

Group Theory 1 and 2

This study of group dynamics examines what occurs in groups and why, how to deal therapeutically with groups of children in solving problems and resolving conflicts. Various techniques will be studied in working with groups. Use will be made of the class group itself for experiential learning.

Hospital Pharmacy Dispensing

You will gain practical experience in modern methods of drug distribution. All aspects of unit-dose and individual patient prescription dispensing and profiling will be encountered.

Hospital Pharmacy Procedures

Students will receive instruction in hospital organization, departmental responsibilities, methods of inventory control, drug distribution and record keeping.

Hospital Pharmacy Work Experience

Students will be assigned to a hospital pharmacy where they will be exposed to methods of drug distribution, inventory control, various aspects of record keeping, out-patient dispensing and other facets of hospital pharmacy procedures.

Human Anatomy& Physiology, Introductory

This course, required for all postsecondary programs in the Health Sciences Division, is designed for the student with limited background in this area. Structure and function of the human body will be discussed to provide a background which will enable the student to understand the basic concepts of health and of disease.

Human Growth & Development 1 and 2

This is a study of growth and development from conception to adulthood. The course will examine basic developmental concepts and principles and their relation to the growth of the complete individual. Particular emphasis will be placed on normal development of the preschooler and school-age child. Classes will consist of open discussions, lectures and films.

Human Growth & Development 1 and 2 (Mental Retardation)

The primary purpose of these courses is to introduce the student to the entire life span. It is concerned with the normal and abnormal and encompasses the study of the growth, behaviour, and the development of mental, physical, social and emotional aspects as well as patterns of maturation in the individual.

Human Physiology 3

The subject matter will emphasize cardiac physiology and the interrelationship of major physiological processes which influence cardiac function. Consideration will be given to the role of control mechanisms involving the nervous, respiratory and renal systems; high-lighting acid-base, and fluid-electrolyte balance.

Human Physiology 4

The subject matter will appeal to health professional having an interest in the management of trauma and medical emergencies. Emphasis will be placed on respiratory physiology and the interrelationship of other major body systems which influence respiratory function. Consideration will be given to the influences of the cardiovascular, nervous and renal systems.

Human Relations (Ambulance and Emergency Care Program)

This is a study of interpersonal relationships with individual patient, or groups of patients, their families and other members of the health care team. The course will also focus upon selfawareness and understanding stress and its manifestations, crisis intervention interactions with individuals and groups. HEALTH SCIENCES and HUMAN SERVICES



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Human Relations (RNA-OR)

A specialized course in Human Relations is included in this program. The major emphasis of the course deals with specific work situations, difficulties of close team cooperation both to the individual and the team, the effects of stress, ways of resolving interpersonal conflicts and effective communications.

Individual Developmental Planning 1

This course examines the preparation of individual developmental plans. Students will learn to assess individual children's development levels; utilize assessment tools appropriately; develop objective and specific developmental goals; teach goal-directed lessons; integrate the individual child into the group and evaluate progress.

Individual Program Planning

This course will introduce students to the concept of individual program planning, its components, function and application. Functional assessments, program format and methods of data collection will be examined and critiqued. The main approach to this course is the lecture format.

Infant-Toddler Programming

This course will take a look at the types and quality of care available for infants and toddlers. Topics will include: age-appropriate programming and activities; discipline; indoor and outdoor equipment; physical exercise; nutrition.

Integration: Community-Based Services

This course will examine the concepts of normalization and integration and their implications for the future development of children's services. The impact of the community itself will be discussed. We will examine various approaches to the development of integrated educational programs and critical issues yet to be resolved in the overall movement towards integration. Classroom sessions will primarily be discussions to allow input from as many perspectives as possible so that students may become conversant with the major issues surrounding the development of children's services.

Integrative Seminar 2 and 3 (Child Care Worker)

This seminar provides students with the opportunity to integrate theoretical course material with their own development as individuals and as Child Care Workers, using their field work experience as a focus. The class is issue-oriented, dealing with material brought out by the students from their experiences in the field.

Integrative Seminars 1, 2, 3, 4

This course gives students an opportunity to discuss the field and block-placement experience with their field supervisor. The format may also include demonstrations, films, guests and small group discussion.

Introduction to Adaptation Nursing 1

This course builds on the student's knowledge of the nursing process. Simple health problems have been selected for discussion. Approaches to support or modify client responses will be explored and moral and ethical issues in nursing will be examined.

Introduction to Mental Retardation 1 and 2

These two semesters will undertake a thorough examination of: the historical development of the field of mental retardation; causes of mental retardation; psychological problems associated with mental retardation; preventive measures; socio-cultural factors giving rise to pseudo-retardation.

Introduction to Resource Teaching

This course will introduce students to the role and function of resource teachers, provide a philosophical basis for integration and normalization, examine the current legislation affecting the care and education of children with special needs, and explore modes of using community resources effectively.

Keyboarding (Funeral Services)

Students will learn to use the typewriter for the production of basic letters, memos, tables and business forms.

Keyboarding (Pharmacy Assistants)

Students will be given instruction in typing and office procedures. The emphasis will be on accuracy and attention to detail since these abilities are essential to the job.

Language Development in Young Children

This course will deal with language development and the role of the adult in promoting language skills. The student will study how the child acquires the ability to talk and what factors may hinder normal development. Topics include: programming for good language development; recognition of language problems; when and where to refer children with problems; the teacher's role in speech therapy.

Leadership in Nursing

This eight-week course will examine various theories of leadership and the nurse's role as a change agent. The student will be made aware of the nurse's responsibility as a leader within the health care delivery system.

Leadership Skills

This course is intended for those working in a variety of settings. The issues of leadership related to working within a health team will be explored.

Lifespan Development

You will study human growth and behaviour from conception to old age. "Normal" patterns of growth will be examined as a framework for differentiating a typical behaviour and development. This will help you understand human needs and problems.

Microbiology

Students will be introduced to the basic concepts of microbiology. Special emphasis will be placed on the study of pathogenic organisms, infection control, methods of sterilization, and in the treatment of infectious diseases.

Moral and Ethical Issues in Health

This course covers a survey of major health issues which pose serious ethical and moral questions to health care professionals and to the community at large. Through class lectures and discussions, readings and assignments, the student will be prepared to itentify problems and clarify ethical ind moral values in health issues.

Husic and Creative Movement

The major areas of emphasis will be on: enhancing the student's repertoire in traditional early childhoodmusic and in folk music; practical sessions focusing on how the child expresses his thoughts and feelings through the use of his body. Topics will include; use of space; body awareness; planning appropriate creative movement experiences for young children.

Normalization Within the Community

An examination of the community and its relationship to the person with special needs is the focus of this course. Existing agencies will be discussed in terms of their function, and how they fit into the overall structure of the community. The organization of government resources will also be examined. The concept of people with special needs being viewed as deviant will be discussed, as well as normalization and integration in terms of potential effect on the community at large, and people with developmental handicaps in particular. The students will be examining their own attitudes and beliefs towards people with mental relardation and handicaps.

Nurse as Leader, The

The clinical component of this course will let the student apply the nursing process in more complex situations. Students will be expected to assume beginning leadership responsibilities.

Nurse as Practitioner 1, The

The clinical component of this course will encourage students to apply their acquired knowledge and skills in various settings. Simple health problems will be the focus for nursing intervention.

Nurse as Practitioner 2, The

Through the laboratory component of this course, students will apply their acquired kowledge and skills in a variety of clinical settings. Complex health problems encountered across the lifespan will be the focus for nursing intervention.

Nurse as Practitioner 3, The

The laboratory component of this course provides further opportunity to apply the acquired knowledge and skills in a variety of clinical settings. Major health problems encountered across the lifespan will be the focus for nursing interventions.

Nutrition and Health

This course aims to familiarize the student with the importance of good nutrition and health in preschool centres. It is designed to develop an understanding of health regulations including basic first aid, childhood diseases, and general health standards as stated in the Day Nurseries Act. The course will also examine the nutritional needs of the young child and explore how preschool environment can meet those needs.

Orientation to Funeral Service 1

This introduction to Funeral Service as it is practised currently in North America, will review the history and evolution of the profession. Customs are compared with those of other countries. Past, present and future roles of the funeral director are discussed. The students are introduced to funeral service procedures, practices and equipment common to most funeral home operations in Canada. Students develop some specific skills regarding equipment use.

Orientation to Funeral Service 2

After Orientation to Funeral Service 1, students will continue to learn about funeral service procedures and practices as well as religious and fraternal rites and rituals. Current and future roles of the funeral director will be discussed in relationsihp to these practices. Students will develop some basic skills regarding arrangements counselling.

Orientation to Pharmacy

This course will familiarize students with all aspects of pharmaceutical legislation relevant to their duties, materials handling and purchasing procedures, drug distribution systems, third-party prescription plans, computer and patient record systems in pharmacy. The relationship between professional staff and other paramedical staff will also be discussed.

Parent-Teacher Relationships

This course will be structured to provide advanced level training for teachers in relating to parents. It will assist the teacher in developing effective communication skills: a better understanding of parents and their needs; planning and providing orientation and in-service training for participating parents; developing appropriate parent education programs.

Pathology

This course is an overview of the major diseases affecting the organs of the human body. Special attention will be paid to the pathological conditions existing at death, which might affect the embalming process. There will also be discussions on the roles of the pathologist and coroner and their interaction with the Funeral Director.

Patient Assessment

This 60-hour course will assist the nurse in developing pre-existing skills in obtaining patient histories, interviewing and performing physical examinations. Emphasis will be placed on developing additional skills and abilities in distinguishing normal from abnormal findings. Supplemental anatomy and physiology will be reviewed for various age groups. The student is expected to take an active part in small group discussions and laboratory/practice demonstrations.

Pharmacy Science 1

This course introduces various aspects of physical, inorganic and organic chemistry which relate to the preparation and use of all classes of pharmaceutical dosage forms. Laboratory experience will highlight lecture material.

Pharmacy Science 2

Pharmacy Science 2 will introduce the student to the effects of drugs on the human body, to the pharmacological classification of drugs and their use in the treatment of various diseases.

Physical Education

This course will examine the purpose and methods of achieving cardiorespiratory endurance, flexibility, muscular strength and endurance and tension-releasing exercises as they apply to the field of Ambulance Service. The problems of stress, tension, diet, obesity, heart disease and smoking will HEAUTH SCIENCES and HUMAN SERVICES HEALTH

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be examined. The student will also explore the area of back problems and how they relate to exercise and lifting. Corrective exercises will be discussed.

Physiological Adaptation and Maladaptation 1

This course introduces the basic concepts of homeostasis and disease. These concepts will be expanded upon to include the adaptation and maladaptation of the reproductive and integumentary systems.

Physiological Adaptation and Maladaptation 2

This course deals with the physiology and pathophysiology of the nervous system and special senses.

Physiological Adaptation and Maladaptation 3

This course deals with the physiology and pathophysiology of the circu-

Physiological Adaptation and Maladaptation 4

latory and respiratory systems.

This course deals with the physiology and pathophysiology of the musculoskeletal, digestive and urinary systems.

Placement Services

Placement services addresses the basic concepts, tools, policies and practices in career planning and job placement for disabled workers. In addition to lectures and guest speakers, there will be assignments to provide practical research, information and application of the subjects covered.

Pregraduate Experience

The theory allows the student to integrate and review the acquired knowledge of nursing before entering the pregraduate experience. The lab course is designed to facilitate the transition of the student nurse to the graduate nurse role. The student will be able to consolidate and apply the principles of nursing theory in a variety of clinical settings.

Principles and Methods of Motivation and Reactivation

This course will study the theories of individual motivation as it relates to the professional worker and the elderly. Specific interventions and techniques designed to motivate and/or reactivate the functioning of the older adult will be studied and evaluated.

Principles of Adult Education and Patient/Client Teaching

To acquaint registered nurses with basic principles of adult education as they apply to a variety of health-related situations including: patient care, patient/client or family health teaching, patient care conferences or clinics, inservice education, working with doctors, other nurses or health colleagues, and community education activities. Group and individual teaching approaches will be used. Course topics will be applied to various health situations and settings as the needs of the learners and of the learning group indicate.

Program Planning and Administration 1

Examination of various program methodologies used for developing group and individual programs will be the focus here. Emphasis will be placed on learning all components of individual program planning and developing functional formats for writing up, evaluating and measuring the program. Students will learn to priorize behavioural objectives and to evaluate the effectiveness of programs. Classes will consist of lectures and workshops.

Program Planning and Administration 2

Administering day care and preschool programs is the focus for this course. Different areas of administrative responsibility and practical information to determine effective managerial practices are highlighted by a thorough investigation into the Day Nurserics Act. Students will get to understand the administrative tasks, functions and issues.

Psychology

The primary emphasis in this course is abnormal behavioural patterns that the ambulance student will likely be exposed to in emergency situations.

Psychology of Grief

This course includes elements of philosophy and sociology so that the aspects of the psychology of grief may be examined from a very practical perspective. Successful completion of this course will prepare the students to deal more sensitively and helpfully with those whom they serve in the practice of funeral service.

Psychology of Infancy and Early Childhood 1 and 2

This is a study of the interaction between a child's heredity and his environment as they influence his development from conception to age six. The general areas studied include physical, emotional, social and cognitive development. Attention will be given to methods which encourage this development to achieve maximum involvement in a purposeful life.

Psychology of Later Childhood 1 and 2

Students will study the school-age child as he ventures forth from the protection of the home and adjusts to the wider community thereby developing the coping skills needed all his life. Students will continue to study the individual as he reaches adolescence and the newly identified stage of youth.

Psychopathology of Childhood 1 and 2

This will deal with the diagnosis, classification, description, causes and treatment of psychological disorders in children and adolescents.

Rehabilitation Programming

This is a review of the key players, principal issues and resources required to support rehabilitation programming for people with special needs. The issues will include identification of special needs target groups, funding sources and resource persons and prerequisite activities that must occur in the rehabilitation process. Emphasis will be placed on contrasting service delivery models such as institutional. normalization (community-based) and consumer models of service.

Rescue Procedures

This course discusses all components of vehicle rescue in conjunction with the knowledge derived from the courses: Ambulance Service 1, Emergency Patient Care 1, Emergency Patient Care 2. Theory and practical use of equipment and rescue techniques will be involved throughout this course.

Restorative Art, Funeral Service Education

The general topic of Restorative Art will be covered in each of its classifications as follows: reduction of swelling. treatment of emaciation; treatment of fractures and lacerations: treatment of

erosion; cosmetics-professional and commercial; and hairdressing and respration.

Retailing - Small Store Proprietorship

The student will acquire a practical avareness of today's retailing scene, particularly the small independent store. It also develops learning skills in decision-making, creative research, merchandising judgment, planning, analysis, and calculations.

Seminaron The Child With Special Needs 1 and 2

In semester 1, historical, traditional and emerging perspectives, issues and approaches to the field of special education will be the focus. A survey approach to various syndromes, causes, and essential characteristics for programming will be highlighted in the second semester.

Seminar on The Child With Special Needs 3 and 4

These seminars will explore the techniques and strategies that improve the performance of early childhood edtectors who deal with children having special needs.

Small Business Management (Funeral Service)

To provide the student with an overview of the non-technical aspects of the funeral service profession in sufficient depth to be of obvious and tangible value, emphasis will be placed on both the practical application and the theoretic bases. The course will be supplemented with selected films, case studies and guest speakers.

Sociology 1

Sociology is a science concerned with the structure of human organization and the subsystems of human relationships. It looks for sources of human behaviour in an individual's social history. It is this interaction with other people, and the systems and institutions created and operated by people within a particular cultural environment, that plays a major part in shaping behaviour.

Special Needs in Mental Retardation

This course provides framework within which current topics, related to the care, training and education of multi-handicapped individuals, will be explored.

Structure and Function 1 and 2

The student learns the anatomical and physiological composition of the human body. Structural limitations will be emphasized with regard to daily situations for the normal and handicapped individual.

Teacher-Parent Relationships

A teacher's relationship with parents can be one of the most important, yet most demanding of her/his roles. To facilitate this relationship, all areas of communication will be examined and discussed; for example, newsletters, parent meetings and other effective means of promoting parent education. Special emphasis will be placed on understanding parents of children with special needs. The course will also examine the rights of parents, their role in the education of their children, and the various support services developed to help meet the needs of parents.

Teaching Family Planning and Sexuality

This is an opportunity to learn program design and development skills necessary to provide both structured and unstructured learning experiences in formal and informal settings. Students will gain experience through peer-teaching practice in a variety of situations. In this skills development course which will focus on teaching methods, students will be exposed to various models of teaching. The microteaching approach allows the students to design, implement and evaluate their own programs.

Teaching the Young Child 1 and 2

This course lays the foundation for all practical work with young children. It explores the philosophy of Early Childhood Education, the teacher's role, the physical setting, the importance of routines and play, communication skills and methods of discipline.

Techniques of Individual Programming

With the movement toward integration and the increased emphasis on individual programs for all children, this course is designed to introduce students to strategies involved in individual program planning. Topics include: functional assessment; goal setting and priorizing; method of instruction; models of instruction; measurement and evaluation.

Theory and Practice of Therapeutic Activities 1 and 2

This will deal with various forms of creative activities (painting, clay, paper mache, drama, woodwork, etc.), children's games, sports activities, outdoor education and camping skills. These activities will provide the student with ideas and some practical experience in carrying them out. Also included will be discussions on creative and therapeutic values of the different activities with children and adolescents. General age groups to be covered are primary, middle and late childhood and adolescence for both the disturbed and the average child.

Therapeutics 2

This course looks at the adult skilled helper and his/her attainment of maturity. It studies behavioural change through self-management and looks at the principles of adult education. By examining basic therapeutic methods with various groups of people, it leads to specific techniques used to help developmentally handicapped persons reach their potential.

Working With Families

This course focuses on work with preschool children with special needs in the home setting. Students will learn to demonstrate empathy for, and provide support to families; help families accept and understand their own special needs; aid parents in finding and evaluating appropriate treatment for their children's special needs.

Hospitality

Advanced Finance Operations This course is a continuation of Basic Finance. It examines the financial management process using the following sequence: bookkeeping, accounting, analysis, decision making and action taking. HOSPITALITY PROGRAMS



Advanced International Cuisine 1

This course provides a detailed study of international cooking. Students will learn the preparation of appetizers, soups, salads, meat dishes, fish dishes, poultry dishes and desserts.

A new country will be introduced each week. Students will be responsible for cooking all items on the menu. The emphasis is upon quality and economy of food preparation. Group work will be used in the preparation and cooking of the food. Throughout the course emphasis will be placed on production discipline and safety, food sanitation and personal hygiene.

Advanced International Cuisine 2

This course provides advanced study of international cuisine focusing on many countries of the world. Students will be responsible for preparing and cooking international dishes.

The Advanced International Cuisine course will increase the students' ability to cook dishes from other countries. Also practice preparation of quality food, economy, food sanitation, hygiene and professional productions.

Baking 1

Students study and practice professional baking as pertaining to the cooks trade. Students will learn bakeshop organization, sanitation, hygiene and safety in bakeshop operations, bakery ingredients and technology of products.

Baking 2

Students will perfect the knowledge of practical baking and will also learn preparations of various desserts, cake baking and cake decorating.

Baking 3

This course provides a detailed study in advanced baking as it pertains to the cooking trade. The student will perfect the knowledge of advanced practical baking of a variety of biscuits, muffins, cornbread, soft and hard rolls, the making of ices and sherbets, hot Hors d'oeuvres and savoury goods, international varieties of apple flans, soft-filling pies, Napoleon, Boston Cream pie, sponge and layer cakes. The emphasis will be on quality, productivity, cost control, sanitation and hygiene.

Baking 4

This course provides a detailed study in advanced baking as it pertains to the cooking trade. Students will perfect the knowledge of theory and practice of cakes and tortes, pastries, desserts, marzipan, gum paste, sugar boiling, wedding cakes and show piece designs. The emphasis will centre on the quality of work, productivity, and cost control.

Bar Management Theory

The student will learn the process of fermentation, distillation and beverage production through course study. You will also study wines, spirits and beers of the world with an understanding of the history, manufacturing marketing, taste and their application to various foods. The ordering, storage, management control and marketing of bar products will be emphasized.

Consumer Research 1

This is an introduction to the techniques used to determine the acceptability of food product in the marketplace. The main areas studied are sensory evaluation and development of the student's sensory skills.

Consumer Research 2

As a continuation of Consumer Research 1, other forms of research which are effective in a profitable marketing program are studied: surveys, interviews and questionnaires. Problem solving and report writing skills make this course very applicable to the needs of industry.

Food and Beverage Service

This course will familiarize the student with the role, function, job description and duties of the Dining Room Manager, Catering Manager (Food and Beverage Manager) of a hotel, restaurant, club, or industrial cafeteria.

Food and Beverage Service 2

The course will involve the student in the actual operation of a high-class licensed dining room-the Humber Room. Students will practice French and Russian table service, preparation and service of flambé dishes, queridon cookery and service, bar service, and service of international cuisine.

Food Preparation: Buffet 1

This course provides a detailed study in the preparation of buffets. Students will prepare a buffet each week under the guidance of the instructor. This will ensure that the students will learn preparation of hot and cold buffet dishes, decoration of centre pieces, garnishing buffet dishes, buffet layout for convenient service, serving buffet items to the customers, and preparation of international buffet dishes.

The emphasis is upon quality of the buffet items, showmanship, varieties of foods and the ability to work with professional tools, group work and production discipline.

Food Preparation: Buffet 2

This course is designed to teach the preparation and service of French and International Buffets with emphasison quality, cost and variety of hot and cold dishes, creation of centre-pieces, showpieces, fat, fruit and vegetable carvings.

Food Theory 1

This course provides a detailed study of the basic theory of professional food preparation, as pertaining to the art of French Cuisine. Emphasis is placed on basic methods of cooking; stocks and soup cookery; basic sauce cookery; seasoning and flavouring foods; egg; rice; pasta; preparations of garnishes and accompaniments; vegetables and potato cookery.

Food Theory 2

The course provides a detailed study of advanced theory of food preparations which are based on the art of French Cuisines.

Food Theory 3

Food Theory 3 provides a detailed study of international cuisine and buffet preparation.

Students will learn applications of advanced theory of cooking for menu planning, presentation and service of food, organization of the larder department, types and kinds of buffet, preparations of the hot and cold hors d'oeuvre, preparation of roasted meat for buffet centerpieces, galantine, fish, shellfish and mollusks and preparation of cold sauces, egg dishes, preparation of international salads and international vegetable dishes.

The emphasis will be on cost control, quality and standards of prepared toods, and also upon group work, methods, production discipline, safety, food sanitation, personal hygiene, nunitional needs, and culinary perfections.

Food Theory 4

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Students will research the necessary disciplines of all the ranks of the titchen with emphasis on classical cooking, international cooking, french culinary terminology and production planning for each.

The emphasis will be on cost control, quality and standards of prepared foods, and also upon group work, methods, safety, food sanitation, personal hygiene, nutritional needs, and culinary perfections.

Food, Beverage and Labour Cost Control

This course is an evaluation of the steps in controlling a food and beverage operation, monthly operating statements, labour cost analysis and labour serving techniques.

Hospitality Computer Applications

This course is designed to introduce the new computer technology for the Hospitality Industry, including actual practice on mini-computers and the Remanco System specially designed for the management control of restaurant and bar operations. Emphasis will be management systems controlling the Hotel front office, food inventories, menu planning, cost control and payroll.

Hospitality Law

The student will learn the law and legislation pertaining to the Canadian hospitality industry, the insurance, liabilities, right of lieu and Innkeepers Compensations; also how the law protects the customers.

Hospitality Marketing

This course includes a study of holels, motels, and resort marketing; market analysis; marketing plans, package travel; public relations; direct mail advertising; internal promotion; group and convention sales. Also covtred is the job of the sales representative, how to make a sales call, and convention service functions.

Hotel Butchery

This course provides a detailed study of the theory techniques, and the methods of HOTEL STYLE BUTCH-ERY of veal, lamb, beef, pork, poultry, game and fish. The student will learn boning, por-

tioning, stuffing, larding and barding and preparation of various cuts of meat for cooking.

Emphasis on practical work with butchery tools, production safety and personal hygiene.

Hotel Front Office and Housekeeping Operation

This course deals with such front office operations as: daily routine; night audit; reservation systems; cashiering; telephone department; uniformed service; guest credit; psychology of selling, and the maximum use of hotel rooms while giving cheerful service.

International Gastronomy

This course provides a detailed research and study into practices of the hotel style food preparation of International and French cuisine, and complete operation of a restaurant.

Emphasis is on international table d'hote menu planning, preparation of food and wine requisitions and their costing, preparation of the cost control summary sheet for labour, food and supplies, establishing food portions and cost per portion, planning of the kitchen organizational chart for food production and pot-washing department. Also discussed will be writing job descriptions, planning of dishingout of food for the dining room according to a planned menu, research of recipes and participation in the actual operation of a licensed restaurant.

International Gastronomy

This course provides a detailed research and study into practices of the hotel food preparation of International and French cuisine, professional services for dining room and bar, computerized control of the restaurant operations and actual participation in the operation of the licensed restaurant.

Kitchen Management 1

Students will learn the scope and dimension of the Canadian hospitality industry through the study of the history of early Canadian Inns and eating establishments, sanitation/hygiene/nutrition/safety and practical mathematics as related to the food industry.

Kitchen Management 2

The course provides introductory study in kitchen management. The student will learn specifics pertaining to labour costs, purchasing, cost control, the structure and organization of the kitchen, as well as scheduling, production norms, product purchasing, perishable and staple products, product specifications and products knowledge, costing recipes, and menu portion control, cost of prepared products and costs of foods.

Kitchen Management 3

The subject menu planning has been designed to teach the student basic principles of menu design and menu planning. Emphasis will be on the influence of menu content, methods and techniques of menu writing, menu terminology and menu copy. Students will learn different types and kinds of menus, daily menus, special occasions menus, and also banquet menus. Students will also learn that the menu is the operational blueprint for the foodservice operations.

Kitchen Management 4

The professional chef must have a knowledge of accounting in order to run a profitable operation. This is even more so in a smaller operation where the chef may also do all of the administrative work.

The course provides a detailed study of the basic fundamentals of accounting. Included in the course will be bookkeeping, journals, budget and forecasting. Emphasis will be on basic bookkeeping, control procedures, value of inventories and cost of sales.

Language d'Hospitalite

This course will provide students with the basic or advanced knowledge of food, wine and spirits terminology and conversations pertaining to dining room and bar services. There are four different levels of languag

Large Quantity Food 1

Students will learn the culinary basics; preparation of soups; derivatives of basic sauces; breakfast dishes; international dishes from pasta, rice and corn cereals and preparation of garnishes for quantity food preparations.





Large Quantity Food 2

This course provides a detailed study in advanced professional cooking. The student will learn the methods of preparation for fish and meat dishes, liver pate, cheese pie, croquettes and dumplings, omelette cookery, shellfish, mollusks and poultry dishes, also production discipline, safety, food sanitation and personal hygiene.

Management Techniques For the Hospitality Industry

This course provides the student with a basic understanding of management decision-making; styles of leadership; motivational and communications techniques used by effective managers.

Menu Planning

This course provides a detailed study of the history of menu evolution, the modern concept of management by menu, plus the constraints in menu planning, finances, analysis and operational control. The student will learn menu mechanics and merchandising for food and liquor; methods of integrating the menu into the operational systems of purchasing, production and services, the dependence of investment ventures on the menu; and also the recognition of the customer in the acceptance and evaluation of the menu. The course will provide the student with a knowledge of management involvement in the detailed aspects of menu planning, writing and printing.

Mixology

To provide the student with the skills and theoretical knowledge required for professional mixing, garnishing and serving bar cocktails, liquors, liqueurs, beer, wine and nonalcoholic drinks.

The student will also learn the professional use of bar stemware, glasses, utensils and equipment necessary for setting up a bar; inventory; and how to change draft beer barrels.

Nutrition 2

This course continues the nutrient study with emphasis on contemporary issues and the application of nutritional knowledge in understanding these issues in relation to the food industry.

Personnel in The Hospitality Industry

The student will acquire the basic knowledge to deal with personnel in the hospitality industry: setting the management and employee goal, recruiting, interviewing, selecting and hiring, to implement and evaluate results. Overall concept of management and organizational effectiveness will be covered.

Practical Baking

The course provides detailed study and practical hands on experience of the baker/patissier trade as practiced in hotel setting.

Students learn about bakeshop organization, sanitation, hygiene and safety in bakeshop organizations, bakery ingredients and the technology of baking.

Purchasing For Hospitality Industry

This course provides a detailed study of principles and practices of purchasing food and supplies in quantity. Students study the following concepts: management responsibilities for purchasing control; organization of purchasing functions; buying strategies; methods and techniques of buying food; operating supplies, and capital items; service and vendors relations; value analysis in purchasing; centralized and departmental purchasing; quality control; and new concepts of materials management.

Quantity Food Management 1

This course provides a detailed study of the management responsibilities in planning, organization, costing, conducting, and controlling food production. Students will learn work methods, cleaning, and sanitation used in food production. Also included in this course is the theory and practice of professional basic cooking.

Quantity Food Management 2

Students will learn the grading of meats; standards and quality of the prime cuts of meats; aging and storage of meat; hotel butchery for meat, poultry and fish. Also included in this course are: advanced methods of cooking meat, poultry, fish and shellfish; pantry production; breakfast cookery; quality vegetable preparation; preparation of manufactured and convenience foods.

Security for the Hospitality Industry

Crimes of violence have invaded the Hospitality industry, together with sophisticated rip offs, fires, hold ups, credit card frauds. This course provides a detailed study of security functions for hotels motels, clubs, resors, restaurants and food service operations. The student will learn methods of modern security for the protection of guests, property and employees.

Small Quantity Food 1

Students learn the basic principles of food production, the culinary terminology, learn the safe use of kitchen equipment and of professional tools and the methods of handling raw and prepared foods.

Small Quantity Food 2

The course provides an advanced cooking practice for quality food production. Students learn preparation of popular soups and variations of sauces; hors d'oeuvres; fish dishes; meats; poultry and variations of salads, salad dressings, and potato dishes.

Technology

A.C. Equipment 1

Students will learn the theory and operation of transformers: single and three-phase transformers, transformer banks, special connections, auto-transformers, potential and current transformers. Losses, efficiencies, regulation, rating, construction, accessories, performance, construction and principle of operation of polyphase induction motors will also be discussed.

A.C. Equipment 2

Students will learn control of A.C. motors: starting, braking, reversing, plugging, speed and torque adjustment, motor controllers, motor protection, code applications, control circuits and control accessories. The single-phase motor, performance and applications, alternators, alternator characteristics, rating and parallel operation will also be discussed.



Advanced Strength of Materials

This is an extension and advanced reament of the Basic Strength of Marrials course, but with greater focus on the design of simple strucnural components under axial load and combined bending, stress effects and deformations. It also introduces the student to statically indeterminate systems in preparation for the 5th and 6th semester structural programs.

Advanced Survey 1

Using the practical and theoretical trowledge acquired in Surveying 1 and 2, the student shall work on projects that require advanced survey techniques. The student will be able to do the surveys for layout of road widening, residential subdivision layout, perform the standard adjustment of survey instruments and use the godetic control to lay out complex survey projects.

Advanced Survey 2

The student will work on practical projects such as determination of a clearance of a hydro line, coordinates of an inaccessible station, determination of an unknown radius of existing highway or railway, interlining on long lines and barometric elevations.

AirPhoto Interpretation

The student will be able to acquire and use airphotos to perform general airphoto interpretation for terrain evaluations. Students will identify all unconsolidated and consolidated landforms and relate their pattern elements to the corresponding ground conditions as they affect route and site selection.

Air Transportation and Airport Planning

The student will be able to help in the formulation of a new air transportation plan for an air hub and help in the design of a new airport system, including the runway design, terminal design, and ground transportation system.

Algorithms and Data Structures 1 and 2

These courses cover the algorithms related to the management of data including sorting, hashing, and recursive algorithms, and memory management algorithms. The fundamental data structures studied include pointer⁸, linear lists, tree structures and graph⁸. Pascal will be used to describe the algorithms and data structures.

Analysis Instruments

The purpose of this course is to provide the instrumentation technician student with working knowledge of operation, calibration and maintenance of analyses instruments used in industrial processes.

Analytical Chemistry Applications

The student will expand his practical analytical skills through the analysis of industrial samples which require more elaborate methods of sample preparation and more complex back titration, indirect analysis, determination of functional groups in organic samples, wet combustion, distillation of volatile acids and bases followed by subsequent titration are a selection of the analysis which the student is expected to perform. The emphasis is placed upon correct laboratory techniques, recording and interpreting data, researching and adopting experimental procedures for various industrial samples.

Analytical Chemistry 1 Laboratory

The student will learn the basic routine laboratory techniques of chemical analysis: analysis of samples (ores, cement, food stuffs, etc.) by titrimetric and gravimetric analysis. Students will record and interpret experimental data, calculate results based on the data, research standard procedures and adopt the method best suited for a specified purpose. Safe laboratory practices and techniques are promoted.

Analytical Chemistry 1 Lecture

The student will acquire the basic principles of "wet" analytical chemistry and calculate solution strength, percent composition, solubilities, ionization constants, and factor relationships based on neutralization reactions, titrimetric precipitations, complexometric titrations, oxidation and reduction reactions and gravimetric analysis.

Applied Explosives (Chemistry)

To study some physical properties of minerals, prepare some mixtures and analyse them and study chemical methods of analysis.

Architectural Design Drafting 1

The student will be introduced to design and working drawing techniques, codes and regulation requirements, and energy efficiency, through the preparation of design and working drawings and details for a series of small projects. Emphasis will be on residential wood frame and brick veneer construction.

Architectural Design Drafting 2

The student will further the knowledge gained during the first semester by improving drafting, detailing and designing skills, through the design of a small factory. The work will consist of a complete set of presentation and working drawings for a two-story office section and a single-story plant area, using a steel structure with masonry infill and aluminum windows.

Architectural Design Drafting 3

Students will broaden their knowledge in architectural design and construction and improve their skills in architectural drafting by studying a three-story masonry, heavy timber, and precast concrete structure. The student will design and prepare presentation land work drawings for either a residential home for elderly people or a motel, in compliance with the Ontario Building Code.

Architectural Design Drafting 4

The students will broaden their knowledge and skills in architectural design, drafting and detailing by using a multi-story, poured and precast concrete structure as the basis for study and design. The work will involve the preparation of presentation and working drawings for a fivestory office complex with two levels of underground parking. The drawings will be prepared in metric units and in compliance with the Ontario Building Code.

Architectural Detailing 1

With emphasis on developing good drafting skills and drawing conventions, the student will, through the preparation of large-scale details of components and assemblies, gain knowledge about construction



techniques and materials pertaining to residential woodframe and masonry construction.

Architectural Detailing 2

Students will further their knowledge from semester 1 by studying the complex parts of commercial industrial buildings and those which require accentuated linework.

Architectural Graphics

Introduction to graphic presentation as an aid to develop good drafting skills. Course will include, linework, lettering graphic conventions, layouts, multiviews, paraline and axonometric projections, one point and two point perspectives, using freehand and handline approaches.

Assembler Programming

The student will use a relocating macro-assembler, linking loader, and simulator/debugger to assemble load, run, and debug programs written in assembler for a typical 16-bit microcomputer—the 68000.

Astronomy

The student will be able to apply astronomy for the determination of azimuth. He will perform observations on the sun and other stars.

Automatic Controls 1

This course provides the student with a sound working knowledge of the basic elements of process control. Students will be introduced to the basic process characteristics, open and closed loops, modes of control used in industrial automatic controllers, maintenance and operation of pneumatic controllers, basic process dynamics and controller tuning fundamentals.

Automatic Controls 2

TECHNOLOGY

This course introduces students to more advanced process control systems. It combines knowledge and skills gained in electricity, electronics and instrumentation with further studies of signal conditioning, control loop characteristics; designing, tuning and troubleshooting sophisticated control systems; applications of advanced control concepts to boiler controls. Also the configuration and operation of distributed control systems such as the Honeywell TDC 2000 will be considered.

Automation Systems

Improving productivity is a fundamental goal of technology. Automation is the application of automatic control systems to manufacturing processes in order to achieve a high level of productivity.

BASIC Programming (Electronics)

The student will be able to operate a microcomputer system including a disc drive and a printer. He/she will be able to solve scientific and technical problems using the language BASIC.

Basic Strength of Materials

Stress and deflection analysis is essential in order to design practical and safe components that are functional. This is an introductory course in the theory of elasticity. The student will calculate stress and strain for metal components and other building materials. This course is designed for third semester technology students who have successfully completed the statics and mechanics courses in addition to Math 1 and 2.

Basic Tool and Fixture Design

This course enables students to understand what tool design is and what role it plays in industry. The course will cover procedures of blueprint reading for tool design purposes, tool drafting vs. other drafting techniques as well as selection rules for dimensioning and tolerancing. The student will draft and design for most of the time by working on such projects as: single point and form cutting tools, gage design, clamping and holding fixtures for numerical control equipment and drill jigs. Knowledge of mechanical drafting is essential.

Bioscience

This course covers the basic and common elements of living things with emphasis on the characteristics of mammalian biology, particularly human biology and physiology.

Boatbuilding and Repair 1

This is primarily a "hands-on" course. This course introduces students to the basic methods, techniques, materials and tools of boatbuilding and repair. Students will be required to be involved in the construction of small craft using metal, fibreglass and wood as the structural materials.

Boatbuilding and Repair 2

Building on skills and knowledge acquired in Boatbuilding 1, students will participate in the construction of small craft involving advanced techniques in metal, fibreglass, reinforced plastic and wood construction.

Building Codes and Regulations

Having studied the Ontario Building Code (with specific emphasis on Parts 3 & 9), the National Fire Code of Canada, the student will be able to find and interpret the Bylaw sections with respect to various building types and construction.

Building Environ Systems 1

This is an introductory course in heating, ventilating and air conditioning. The student will study the fundamental principles of air conditioning, the scope and uses of air conditioning, physical principles, heat load calculations, cooling load calculations, residential cooling loads, psychrometrics, the air conditioning process, fans, air distribution and devices.

CAD 1 (Computer Aided Design)

CAD I will introduce students to Computer Aided Design CAD, its capabilities and limitations. Each student will learn to operate the Auto-Trol graphic terminal, draw 2dimensional parts, dimension drawings using conventional and nonconventional tolerances, create cross sections using cross-hatching, design 3-dimensional parts using the projected entity method, display, modify, edit, rotate and translate 3dimensional objects and plot 2 and 3dimensional parts.

CAD 2 (Computer Aided Design)

CAD 2 is a continuation of CAD 1. It will expand the students' understanding of surfaces, file structures, application interfacing, data verifications, translation, translation-rotation of groups, sets and array. Writing and creation of GRAPHL and/ or EAGLE programming languages will be discussed extensively. The student will learn to design family of parts, nesting, flat pattern and bill of materials. Fundamentals of solid moduling and NC machining will also be discussed.

Calculus 1 (Chemical)

Pre-calculus topics include linear functions, quadratic functions and semi-log and log-log graphs.

The introductory calculus includes both differential and integral calculusaverage rates of change, instantaneous rates of change, rules for finding derivatives, critical points on curves, maximum/minimum problems, differentials and small changes, related rate problems, exponential functions, anti-differentiation, areas under curves, definite integrals and their applications.

Calculus 1 (Civil, Survey, Hydrographic, RAC, Solar, Energy Mgmt.)

An introductory calculus course covering differentiation and integration of algebraic functions. Topics include instantaneous rates of change; maximum and minimum problems; differentials and small changes; product, quotient, composite function rules and implicit differentiation; related rate problems; indefinite and definite integration; areas under curves, volumes of revolution and moments of inertia.

Calculus 1 (Electronics)

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Calculus 1 consists of the following sections: graphical methods of differentiation, algebraic methods of differentiation; power, chain, product, and quotient rules, derivatives of sin u, cos u, eu, and ln u, maximum and minimum problems, the integral, integrals of sin u, cos u, eu, and ln u, and the substitution method of integration.

Calculus 1 (Manufacturing, Electro-Mech., Ind. Mgmt., Safety)

An introductory calculus course to include the following topics: average rates of change; instantaneous rates of change; maximum and minimum problems; differentials and small changes: product, quotient and composite function rules and implicit differentiation; related rate problems; indefinite and definite integration; areas under curves and applications of integration.

Calculus 2 (Civil, Survey, Hydrographic, Solar, Energy Management)

The student will be able to demonstrate basic mathematical skills, and use them appropriately in specific application, in the differentiation of trigonometric, exponential and logarithmic functions, and certain integration techniques to include substitution, basic log and exponential forms, basic trig forms, integration by parts, and integration using tables.

Calculus 2 (Electronics)

Students will learn additional calculus: calculus solution of first order differential equtations; Laplace Transform solution of first order differential equations; circuit analysis using Laplace Transforms; Bode and Polar plots; and FORTRAN programming.

CAM 1 (Computer Aided Manufacturing)

CAM 1 will introduce the student to the concept of computer integrated numerical control. He/she will learn to prepare tool paths for turning, 2-3-4 and 5-axis milling-drilling-boring and contouring applications. Students will produce, using APT, and compact 2 source generators, source files of the above. Edit these files for further processing, and finally, will post process these files into suitable tape files for turning or milling type applications.

Chemistry of Explosives 1

The student will be able to determine empirical and true molecular formulae, balance equations and perform chemical arithmetic, explain the atomic theory of matter, calculate heat of reaction, define and apply the gas laws, and explain how the activity series evolved. Students will also learn how to treat water for hardness removal, remove noxious agents from air and water, make-up solutions of known molarity, molality and normality and determine their pH values.

Chemistry 1

The course begins with the review of basic principles of chemistry which comprise matter, atomic structure, periodic table, balancing of reactions, preparation of solutions and titrations involving acids and bases. It is then followed by an indepth study of operations and manufacturing procedures of selected chemicals, petroleum and steel industries. In these studies flow charts and diagrams are used widely with emphasis on the chemical conversion reactions, the equipment and instrumentation for proper control of the system.

Chemistry 2

This course is a continuation of Process Chemistry 1. The following industries are studied in depth: petroleum processing and refining; the manufacture of industrial gases; water treatment and purification; pulp and paper; iron and steel operations; soap and synthetic detergents; glass industries.

Circuits and Measurements

This course provides the student with a sound understanding of the effect of resistance, inductance and capacitance in series and/or parallel DC and AC circuits. Measurement techniques related to these circuits are also covered.

Civil Drawing

Having acquired the necessary drafting skills from the two previous drawing courses, the student will be able to draw full working layouts from engineer's line diagrams and prepare reinforcing steel shop details and bar lists.

Commercial Systems 1

The course encompasses central systems and all-air systems including single-zone variable air volume, dual-duct, and multizone. The student will be able to analyze commercial systems, design layouts, specify components and troubleshoot.

The systems covered are the unitary and build-up types used in most typical residential, commercial and industrial installations and, to some extent, alternate energy installation.

Commercial Systems 2

The course is based upon a series of theses presentations which have been researched by and assembled by students. There is one test given on each presentation in the class immediately following the presentation. TECHNOLOGY



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TECHNOLOGY

Course Descriptions

Computer Architecture 1

Students will study the fundamental of microprocessor hardware and software. They will write machine language programs for a 68000 based system.

Computer Architecture 2

A course describing the extra circuitry added to a processor board to make a complete system. Topics will include discussions of Direct Memory Access, system timing, memory management, serial and parallel I/O.

Computer Control

This course will teach you how to program and apply microprocessor based equipment for process control such as the Radio Shack TRS 80, Apple II, and Honeywell TDC 2000.

Computer Programming (Mechanical Programs)

Algorithmic solutions to computer problems will be developed, flowcharting will be illustrated, and computer instructions will be coded in the FORTRAN and BASIC languages.

Computer Programming and Concepts

Through proper application of the skills developed in this course the student will be able to use a computer with BASIC language capabilities to solve technical and non-technical problems. The student should be able to utilize these skills in solving course related problems to be encountered during the remainder of his/ her program.

Computer Programming 1 (Basic) (Arch., Civil, Expl., Survey, Hyd. Survey, RAC, Solar)

Alogrithmic solution to computer problems will be developed with the aid of flow-charting. Instructions will be coded in the language, BASIC.

Computers in Business

A survey course on how computers are used in business. This course serves as contrast to the technical applications of computers.

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Construction and Building Materials 1

The student will be able to describe the manufacture, performance, quality and application of materials used in building construction, as well as perform control tests on certain of these materials, i.e. concrete, masonry, steel.

Construction Management and Estimating

This overview of the construction management process will allow the student to identify the interrelation and function of the principles involved. As a management function, the student will organize and carry out an estimate. This includes the organization of procedures, the preparation of quantity lists of materials and the cost estimating of sizable, but uncomplicated projects.

Construction Technical Drawing

This is an introductory course in technical drafting in which the student will acquire the basic drawing skills in linework, lettering, labelling, layout and organization, axonometric and orthographic projection, and crosssections. On completion of this course, the student will be able to learn the more complete structural and civil layout drawings and details as taught in the follow-up course, Structural Drafting.

Control and Electronic Survey 1

The student shall be able to operate efficiently EDM instruments, design and execute simple horizontal and vertical control network, apply the atmospheric corrections to observed distances and do the reductions using charts and monograms. He/she will be able to observe reciprocal zenith distances for vertical control projects.

Control and Electronic Survey 2

The student will be able to calculate plain rectangular coordinates of control stations from data collected in the fall semester. Students will also be able to calculate elevations from reciprocal zenith distances, use the method of intersection and resection for position determination and calculate the ambient refractive index for EDM distances.

Control Systems (Electrical Control Engineering Technician)

An introductory course in feedback controls as applied to all electrical and electromechanical systems. Aims of feedback, block diagrams and hardwares are described. Students are led to relate response to inputs. Treatment is physical and qualitative instead of mathematical. Approximately equal times are allotted to steady-state and transient response. Characteristics of energy-storage and energy-dissipative elements are compared and the controlled outcome stressed. Stabilizing techniques are introduced.

D.C. Equipment

The theory of operation, characteristics and applications of D.C. motors and generators. Control system components are studied to develop a feel for their operation and applications. wired into basic control circuits and finally into more complex circuits where the necessary components are selected and values calculated.

Data Communications Systems 1

This course covers low speed asynchronous data communications over the telephone network.

Demand Actuated Travel

With emphasis placed on the transportation planning process as a total process requiring the integration of many of the interacting characteristics of the urban environment, the student will establish definite relationships between person or vehicle travel and land use. The student will be able to forecast, within acceptable margins of accuracy, future trip generation and demand for travel by all modes in existing or future developments and their assignments on existing and proposed network systems.

Design Loads 1

The course involves the calculation of heat loss and heat gains for residential buildings, including the design and drawing of the appropriate forced air distribution systems. To accomplish this, the student will study the principles of heat transfer, methods of moving air, duct layout and equipment selection. The methods used will comply with the regulations of the latest issue of the Ontario Building Code, i.e. HRA Institute of Canada Digest.

Design Loads 2

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The student will learn the requirements and procedures for calculation design, selection of equipment and installation of air conditioning and heating requirements to meet design criteria as calculated by heat gain and heat loss procedures for commercial buildings.

Design Loads 3

The student will learn to layout and draw a built-up heating and/or cooling system for commercial and/or industrial applications, to determine duct and/or hydronic pipe sizes as well as size equipment relative to heat loss and/or heat gain calculations according to the A.S.H.R.A.E. handbooks.

Die Design 1

This course will identify and explain the fundamental requirements which must be known and understood for a large number of cold presswork operations and to provide the student with the theoretical methods in calculating and analysing components of sheet metal produced by cutting and forming. The student will be involved in practical design activity for most of the time; die details. function nomenclature as well as die and drafting techniques will form the core object of the course. Projects will consist of: two-stage-piercing blanking die, compound die and bending dic.

Die Design 2

Using the principles laid out in Die Design 1, the student will solidify and expand on his design techniques by performing practical die design assignments. The student will be involved in drafting and design activity for most of the time by working on projects such as: adjustable die design for short run production, drawing dies, curling dies, and stamping die estimating methods, etc. Mechanical Drafting is deemed essential.

Digital Circuits

This course introduces the basic concepts of solid state control systems as found in today's industry. The operation and application of the basic logic gates are developed and then used in flip flops, counters, shift registers and other typical industrial control systems. Binary counting and boolian algebra are also included to further develop an understanding and analysis of the circuits.

Throughout the course the student is taught to convert the logic circuits to conventional relay circuits, and how to utilize the Boolean algebra with relays circuits as seen in programmable control systems.

Electrical Circuits and Applications (Small Craft& Marina Technology)

This course will cover the basic concepts of electrical theory, circuits and wiring applications of small craft and marinas with relation to trade practice and governed by the Canadian Safety Standards for Electrical Installations in small craft and marinas.

Electrical Circuits and Applications 1 (Electrical Control Technician)

A fundamental course covering the behaviour of electrical devices, circuits, their applications and industrial practices. Areas include: characteristics of common DC and AC sources, resistance, power and energy, meaning of equipment rating, magnetism and electromagnetism, inductance, capacitance, simple and complex circuits connected to DC and singlephase supplies, major electrical laws, use of basic instruments and the oscilloscope and trouble shooting.

Electrical Circuits and Applications 2 (Electrical Control Technician)

This course will cover the alternating current theory: the sine wave and its properties, vector representation, polar and rectangular coordinates, non-sinusoidal waves and harmonics. Also included will be the study of measurement of a.c. quantities and the oscilloscope, inductive and capacitive reactances, impedance, complex a.c. circuits, circuit response as a function of frequency, nonsinusoidal waves and wave filters.

Electrical Circuits and Applications 3

This course covers three-phase systems of voltages, common supply voltage levels and connections, system rounding, balanced, unbalanced and parallel loads, phase and line voltage and current relationship. Power in three-phase circuits and their metering, use of instrument transformers will also be discussed.

Electrical Controls 1

The first course in electrical theory introduces mechanically oriented students to electrical circuit theory. Use of basic electrical instruments to make voltage, current and resistance measurements is stressed. DC circuit work is dealt with in detail with an introduction to alternating current circuitry.

Electrical Design 1

This course covers electrical design procedures, drafting room practices, drawing fundamentals, physical layouts, illumination design, wiring methods, construction methods and materials, and the necessary code requirements. Design projects are assigned and carried out under the guidance of an instructor with specific emphasis on skill and quality.

Electrical Design 2

This course is a continuation of Electrical Design 1. It includes further development of the information learned in Design 1, relevant to the programmable controller. The course covers operational flow diagrams, bills of material, protection systems, introduction to programmable controllers descreate I/O, analog I/O, and program loaders of various types.

The student will also be required to design all pertinent information for a small and a large project based on the use of the programmable controlsystem.

Electrical Drafting

The student will learn to solve electrical design problems and apply practices as related to the construction and building industry, using specific electrical terminology, as well as electrical codes and design layouts.

Main course topics include electrical lighting, electrical heating, and



application of low voltage electrical motors, electrical control and associated distribution equipment.

Electricity 1

This course introduces the student to DC and AC electrical theory. Electrical services used in industrial and domestic applications will be discussed. The student will become familiar with the theory of electric currents and simple circuits and will be able to solve related problems.

Electricity 2

This course continues the basic study of electricity commenced in Electricity 1. It is assumed that students enrolled in this course are thoroughly familiar with the work covered in Electricity 1. The course covers AC and DC circuits, including three phase systems. Various types of DC and AC motors are studied together with their starting systems and protective devices. The generation of electrical power, both DC and AC is covered.

The instrumentation portion includes a review of instrument transformers and their use, and includes the use of instrument loops, control systems, and the basic measuring devices used in mechanical, electrical and pneumatic control systems.

Electromechanical Techniques

This course provides an understanding of behaviour, operation, application, and some theory of electromechanical devices employed in electronic equipment. Also, properties of common material used, corrosion, cathodic protection, and fastening methods in the electronic field are discussed.

TECHNOLOGY

Electronic Applications

Electronic applications will introduce the students to various types of electronic instruments in common use in industry. The students will perform laboratory assignments on these instruments. Lectures will be given on certain topics that cannot be thoroughly covered in a laboratory assignment (eg. D.P. cells). Emphasis will be on the practical use of electronic instruments. Upon completion of this course, the student will be able to operate and calibrate the instruments in the laboratory assignments, understand their principles of operation, and know their application in industry.

Electronic Circuits and Applications 1

An introductory section on the basic concepts of electricity and current flow leads to an analysis of DC series, parallel, and series- parallel resistive circuits. The characteristics of capacitors and diodes are investigated, and the results applied to AC-DC rectifier circuits and clipping and clamping circuits. The theory of operation of the VOM and oscilloscope are studied and these instruments are used in the laboratory.

Electronic Circuits and Applications 2

An investigation of semiconductor action leads into the theory of operation of the bipolar transistor. Transistor bias requirements and suitable bias circuits are analysed, the the characteristics of large and small signal amplifiers are then examined in detail. The effects of feedback are investigated and the results applied to explain the operation of feedback oscillator circuits.

Electronic Circuits and Applications 3

In this course the emphasis is on operational amplifiers. The OP AMP is introduced with its basic theory, its limitations and practical applications. The field effect transistor is discussed and the discrete differential amplifier is used to lead into the OP AMP.

Electronic Circuits and Applications 4

This course covers topics in pulse circuits and the thyristor family. Applications in industrial circuits are discussed.

Electronic Circuits and Applications 5

A practical design course that examines amplifier, oscillator and filter circuits used as building blocks for most transmitter and receiver circuits. The characteristics of transistors at high frequencies will be examined and designs will be made that achieve stable, low noise gains.

Electronic Measurements for Chemical Systems

The student will apply fundamentals of electronics to typical measuring instruments which are relevant in the chemical and biological field with appropriate problem solving and laboratory exercises.

Electronic Production Technology 1

This course is the first part of a twosemester subject. In this design part, students master the basic skills of Electronic Drafting and Printed Circuit Layout Techniques and become familiar with a cross-section of drafting conventions and practices. A suitable project (small amplifier, power supply, colour organ, or similar) and a complete set of drawings to good commercial standard must be produced. Each drawing assignment is a practical application of lecture theory, and a student gradually develops drafting skills and electronic design understanding.

Electronic Production Technology 2

This is the second "construction" part of a two semester subject in Electronic Production Technology. The student will gain experience in soldering and in complete printed circuit board production including layout, negative film and P.C. Board manufacturing. Manufacturing practices and processes will be taught. The student will construct an electronic project, combined power supply and function generator "unit" in the Electronic Production Lab. Each student will work individually on his project, using methods resembling the current assembly line techniques. The final product is to be built to good quality workmanship standards. A complete specification book must be presented with each unit after testing procedures are finished.

Electronics 1

This course starts with an introduction to the principles of solid sate devices and proceeds through a study of power supplies, bipolar transistors, circuits, and circuit applications. This is followed by a study of field effect transistors and circuits, including a comparison between F.E.T.s and vacuum tubes operating in similar circuits. The course concludes with astudy of selected thyristor devices and circuit applications pertaining to adustrial control.

Electronics 2

The course deals with basic logic concepts and includes an introduction to microprocessing. The topics explored include basic logic gates, flip-flops. clock circuits. counters, registers, storage devices, and inputoutput systems. The course concludes with an introduction to microprocessors and applications of microprocessors to industry.

Engineering Drawing

This is an introductory course in Engineering Drawing in which the student will acquire the basic drawing skills in linework, lettering, labelling, layout and organization, axonometric and orthographic projection, and cross sections for mechanical and construction projects. The latter part of the course will stress piping drawings exclusively.

Environmental Microbiology

The objective of the course is to give the students a knowledge, both practical and theoretical, of medical microbiology including parasitology, mycology, bacteriology and virology.

Equipment and Energy Selection

The student will be able to select hpes of air conditioning systems and equipment for residential, commercial and industrial use considering first cost, owning and operating costs and other economic factors.

Estimating (Explosives)

The student being familiar with the availability, strength rating and cost of authorized explosives will be able to recommend both type and quantity required in routing blasting operations.

Explosive Technology 1

The student will be able to describe the manufacture, properties and safe handling of conventional dynamites, slurry explosives and blasting agents. Students will also be able to select and asist in hooking up a variety of delay and non-delay initiation systems. Coupled with technical visits to both quarry and construction site, students will be able to load and shoot a simple round with supervision.

Explosives Technology 2

The student will be able to describe a wide range of blasting procedures currently employed in construction, quarrying and mining. In addition students will be able to outline the limitations and various types of hand held and crawler-mounted rock drills and be able to select both type and number of machines as required.

Explosives Technology 3

The student will be able to use seismic and sound level equipment used in monitoring blasting operations; also design blasting systems to contain vibration and noise within safe limits. Further, students will be able to estimate drilling, blasting and related costs as encountered in quarrying and construction.

Final Control Elements

This course provides the student with a sound working knowledge of control valves and their maintenance. Upon completion, students will be able to explain the function and operation of control valves and control valve accessories, size and select control valves for various applications, and specify correct installation and maintenance procedures.

Fire Protection

Effective programs must be developed to reduce the immense loss potential due to fire both in terms of human values and economic impact. Techniques for fire prevention and extinguishment are considered.

Fluid Mechanics (Mechanical)

This course provides the student with a basic understanding of fluid mechanics principles in general and their applications to fluid power technology in particular. It will enable the student to analyse the behaviour of fluids, determine their properties and calculate parameters of simple fluid systems.

Fluid Mechanics 1 (Civil)

Using the properties of fluids, fluid statics and the underlying framework of concepts, definitions, and basic equations, for fluid dynamics, the student will be able to solve problems associated with flow of water in pipes and open channels and their measurements (Weirs, Venturi, Orifice and Watermeters).

Fluid Power Circuits and Controls 1

This is a continuation of the Industrial Hydraulics course. It discusses typical industrial hydraulic circuits, analyses the relation and interaction between components and sub-systems. Topics include: load analysis, component matching and steady state characteristics.

Fluid Power Circuits and Controls 2

This course introduces moving part logic and the theories and equipment associated with this method of control. It will enable the students to design complex pneumatic control circuits using Boolean Algebra and other accepted methods. It will introduce hardware in the laboratory through projects.

Food Microbiology

The student will study the major microbiological and non-microbiological methods of preserving foods. Areas of study will include prevention of food spoilage; the use of moisture control, canning, irradiation, and chemicals in food preservation; and the causes and prevention of foodborne illness. Prerequisite: Introductory Microbiology.

Fortran Programming (Electronics)

Algorithmic solutions to computer problems will be developed, flowcharting will be illustrated and computer instructions will be coded in Fortran.

Fortran Programming (Industrial Engineering)

Algorithmic solutions to computer problems will be developed, flowcharting will be illustrated; and computer instructions will be coded in the FORTRAN language..

Fundamentals of Manufacturing Processes

The objective of this course is to introduce the fundamentals of various production processes used in secondary and primary industries. The processes related to the secondary industries will include: casting, machining, forming & shearing processes. The primary industry processes will be limited only to iron and steel making methods.



Gas and Diesel Motors For Yachts

This course examines the components, principles of operation, selection, basic maintenance and servicing of two and four stroke cycle gasoline and diesel yacht motors and their ancillary equipment.

General Chemistry 1

Review of fundamental principles of chemistry as a preparation for more advanced courses.

General Chemistry 2

To continue to learn fundamentals and principles of chemistry as a preparation for more advanced courses.

Heat Transfer 2

This course builds on knowledge gained in Heat Transfer 1. Some of the topics covered are: transient effects on conduction heat transfer, free and forced convection, analysis of heat transfer within heat exchangers, and heat transfer with phase change. A working knowledge of calculus is recommended. Computer programs in BASIC and FORTRAN will be used to demonstrate or solve examples given in the course.

High Frequency Circuits

Amplitude modulation and frequency modulation are analysed, along with circuits used in AM and FM communications systems.

Highway Technology

Students will be able to design and layout horizontal and/or vertical alignment of roads. Students will also be able to determine the geometric characteristics of the road on the basis of function, safety, and traffic volume carried by the road.

TECHNOLOGY

Hydrographic Survey 1

The purpose of this course is to acquaint students with the elements of hydrography to the extent that they will be capable of performing basic activities associated with actual field operations, including data collection and processing, associated mathematical computations for planning a hydrographic survey, establishing a suitable sounding datum, conduct sounding operations.

Hydronic and Steam Systems 1

This course is intended to familiarize the student with the use of steam and hot water as heat transfer media in domestic and industrial installations. The construction, installation and operation of system components will be covered, together with the basic rules covering such installations.

Industrial Electronics 1

An introduction to the operational characteristics and applications of electronic devices is developed through research, experimentation and mathematical analysis. These devices include diodes, transistors, siliconcontrolled rectifiers, triacs and other components of industrial applications.

Industrial Electronics 2

The basic concepts developed in Industrial Electronics 1 are now taken and applied to typical idustrial circuits such as electronic timers, photo detectors, speed control devices and other industrial circuits. These circuits are then analysed to identify components, basic circuits and their effect in the overall operation. This helps to understand the total circuit operation, identification of, and correction for typical circuit problems.

Industrial Hydraulics

This course introduces hydraulic hardware and illustrates its use in hydraulic circuits with the aim of preparing the student to identify and install, specify and select, analyse and design hydraulic systems which are applicable to industry.

Industrial Instrumentation (Electrical Controls Technician)

Industrial Instrumentation is designed to familiarize the student with pneumatic and electronic instrumentation. This semester covers instruments, meters, sensors, transmitters, transducers, receivers, indicators, recorders and computational devices. Pneumatic and electronic instruments are studied. Upon completion of this course, the student will be able to explain the operation of pneumatic and electronic instruments used in process control and will be able to install, calibrate and troubleshoot these instruments.

Industrial Organization and Management (Air Conditioning & Refrigeration/Mechanical Solar))

This course will enable the student to develop, and subsequently demonstrate, an understanding of modem management theory and practices. To this end the case study method will be used extensively throughout this course.

Industrial Organization and Management (Industrial Management Technology)

The structure of an industrial organization, the function of a management plan, direction and control of operations will be examined. The environment discussed will be Canadian which includes the various degrees of impact from the rest of the world.

Industrial Pneumatics

This course introduces the student to the use of compressed air as a power and control medium. Students will be able to select, install and maintain industrially used pneumatic hardware and design simple sequencing and control circuits. Course topics include gas laws, compression of air, selection of hardware and basic circuit design. A major portion of the course is laboratory work where the student builds simple and complex simulated control circuits.

Industrial Security

The graduate will be able to design a program of security for industrial plants and building complexes relating all security functions of guards, fire protection, emergency and disaster plans, physical and personnel security and security of documents. Students will learn to plan for physical barriers, electronic surveillance, the overall security system, security lighting and storage of valuables.

Instrumentation 1 (Solar)

This course is an introduction to the various types of instruments used in climate control systems as well as in general industrial installations. The course materials assume that the student has successfully completed Electricity 1 and 2 as well as Solid State Instrumentation courses.

Instrumentation 2 (Solar)

This course continues Instrumentation 1, and explores the systems used with the data acquisition devices previously studied. Environmental Systems and General Industrial instrumentation for continuously operating production facilities will be discussed. The course materials assume that the student has successfully completed Instrumentation 1 and its prerequisites.

Introduction to Computing

Algorithmic solution to computer problems will be developed with the aid of flowcharting. Instructions will be coded in the language, BASIC.

Introduction to Pascal

Introduction to Pascal language to include its basic concepts, structure, elements and computer programming in VAX-2 Pascal language.

Students will be familiar to some DCL (Digital Command Language) needed to create, file, edit, link, compile, and execute a Pascal program.

No prerequisite is required but some prior exposure to computer programming is helpful.

Introductory Microbiology

The student will learn the basic concepts and techniques: how to use the light microscope, prepare and stain smears, make growth media, apply the techniques of pure culture and enumerate micro-organisms.

Kinematics of Machines

Mechanics of Machines is an engireering science which investigates the relationship between moving machine parts. It is the study and analysis of the functional motions of mechanisms combined with force, torque, and power ratios. During the course you will be acquainted with a variety of engineering and scientific calculations, and engineering drawing. During the lab sessions you will be exposed to a variety of visual, tactile and judgmentmaking experiences which contribute to the elusive quality described as "technical intuition".

Lab Instrumentation

The student will learn the general principles of modern physical techniques used in analytical work in chromatography, spectroscopy and electrochemistry.

lab Instrumentation Application

The student will be able to properly use various instruments and carry out analytical work in chromatography (paper, gas-liquid, thin layer, electrophoresis), spectroscopy (IR, visible, UV, AH, flame photometry and nephekometry), and electrometric methods (potentiometric, voltammetric, and electrolytic). The student will be able to select the proper instrument and record and interpret data for various organic and inorganic industrial analyses.

Land Division

The students will be able to describe the evolution of the survey profession in the province of Ontario and the related statutes, namely The Surveyors Act and The Surveys Act. Students will also learn the procedures for dividing land in the province of Ontario and will be able to design a simple subdivision plan.

Lighting Systems 1

Through a combination of practical projects and theoretical lectures, this course will stress the interaction of lighting with other energy systems.

Lighting Systems 2

This course is a direct continuation of Lighting Systems 1 and will allow the student to attain a more advanced theoretical understanding of lighting design for commercial and industrial building complexes. A practical project in lighting will be integrated into the course work.

Logic 1

The goal of this course is to provide the student with the foundations of logic that computers and other digital systems are based upon. The student will learn the elements of digital hardware (such as gates, flip-flops, registers, counters, display devices), machine arithmetic, and appropriate applications of Boolean algebra.

Logic 2

Based on the principles and integrated circuit device operations developed in Logic 1, this course carries on with the study of more complex logic systems found in such areas as digital computers, digital communications, and digital control systems. The student will learn the operations and typical uses of arithmetic circuits, coded number systems, digital multiplexing, synchronous circuit design, error detection and correction, D/A and A/D conversion, semiconductor memories, and the properties of various logic families.

Machining Processes

A basic understanding of and experience in the operation of machine tools. Also an appreciation for and the ability to distinguish between the various metal removal methods, on lathes, milling and drilling, and grinding machines. The course project will be used as a means to an end, to maximize the amount of learning.

Manufacturing Cost Estimating

In order to prepare for estimating the expenses that are incurred in manufacturing products, the student will use the prerequisites of blueprint reading and manufacturing processes, to develop the techniques of cost estimating products manufactured by various processes such as machining, casting, welding, stamping or processes related to the plastic industries.

The student will learn to calculate labour and material cost for different types of estimates, will become familiar with the terminology related to estimating such as direct and indirect costs, burden rates, ship efficiencies, administrative expenses, profit margins etc.

Manufacturing Process Planning

The manufacturing engineer uses process planning to determine the order or sequence of operations necessary to manufacture a part. This course will be involved with some of the basic concepts of process planning used in the hardware industry. Preliminary part analysis, dimensional analysis, tolerance analysis, tolerance charts and the theory and practice of locating workpieces will be discussed. Using routing and operation sheets, the student will be involved in processing relatively simple parts to be manufactured by machining methods.

Manufacturing Process Planning 2

Using as prerequisites the fundamentals of process planning as laid out in the Manufacturing Process Planning 1, a series of process planning projects will be carried out. The student will be involved in processing parts of a more complex nature to be manufactured by machining, sheet metal fabrication and welding.



Manufacturing Processes 1

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In this course students will learn the basic fundamentals of various manufacturing processes used in primary and secondary industries. The primary industry processes related to secondary industries will be discussed: casting; forming and shearing (hot and cold); machine (conventional and nonconventional); plastic assembly; and heat treatment to evaluate the merits of one method with another.

Manufacturing Processes 2

This course will be concerned with the fundamentals of processes and materials used in plastic and rubber industries. Other manufacturing methods, related to the metal industries, such as various thread and gear manufacturing will be discussed. The principles of process planning will be explained with emphasis on preparing routing and operation sheets for a given component to be manufactured.

Marina/Yacht Club Design, Construction & Operations 1

The emphasis of this course is a comprehensive study of the design and construction of marina and yacht club facilities under varied circumstances as well as the know-how of upgrading and modernizing of existing facilities. Included in this course are the fundamentals of site evaluation, feasibility and on-going operation of selected typical facilities. Although design theory will be covered, the emphasis will be on logical analysis rather than engineering.

Marina/Yacht Club Design, Construction& Operations 2

TECHNOLOGY

Building upon the basics of the previous semester, this course continues in development of design theory and practical application aspects as well as detailed study of various construction methods that may be employed to construct a new facility or upgrade an existing one. Problem solving on a dayto-day basis in the marina/yacht club environment is a key component. A "hands-on" design assignment is a primary component.

Marine Contracts, Insurance and Taxation

This fundamental law course deals with the sources of law, the Courts of Canada, Torts, Negligence, Contracts, Admiralty Jurisdiction, Law of the Sea, Proprietorship, Partnership and Corporations, Leases and Purchases of Real Property, Limitations of Liability, Time Charter Parties, Charter Parties, Salvage, Marine Insurance, Tax and other areas of general interest to the recreational marine industry.

Material Sciences

This course provides the student with an understanding of the behaviour and characteristics of metals and materials. Students will make decisions on the selection and processing of materials for engineering and manufacturing purposes.

Materials and Methods of Construction 1

In this section of Materials and Methods of Construction the student will become familiar with reference materials and sources of information pertaining to construction, gain understanding about soils, foundations and site work, and acquire knowledge about concrete and its importance as a construction material.

Materials and Methods of Construction 2

In this second section of Materials and Methods of Construction, the student will acquire knowledge about masonry, metals, wood and plastics products with emphasis on their properties and applications.

Materials and Methods of Construction 3

In this third section of Materials and Methods of Construction the student will acquire knowledge about thermal and moisture protection, doors, windows, glass and architectural finishes.

Mathematical Modes for Transportation Planning

The student will be able to create and apply mathematical models, statistical or graphical, in developing Transportation Planning Modelling Techniques to overcome the difficulties of the expansion of small data samples to represent universal behaviour.

Mathematics (Dynamics)

Dynamics is the study of objects in motion and is divided into two parts, Kinematics: the study of the geometry of motion, and Kinetics; the study of the relation between the forces acting on a body, and the mass and motion of the body.

We enlarge the concepts introduced in First Semester Mechanics and introduce graphical kinematics as a new topic.

Mathematics (Management Applications)

Application of descriptive and inferential statistics to the solution of technical management problems. Introduction to management science (operations research) techniques including cost volume analysis, decision theory, inventory analysis, linear programming and network models.

Mathematics for Small Craft& Marina Technology

This course in basic mathematics has been designed specifically for marine applications. It includes basic algebraic operations and functions, graphs, linear equations, determinants, quadratic equations, exponents, radicals, logarithms, geometry, vectors, and trigonometric functions. In addition, the course will provide an introduction to basic mechanics.

Mathematics 1 (Architectural)

Fundamental concepts and operations functions and graphs; trigonometric functions; systems of linear equations (2 equations in 2 unknowns); factoring and fractions; quadratic equations; trigonometric functions of any angle.

Mathematics 1 (Chemical)

This Math I course reviews the fundamental principles of algebra involving linear equations, formula manipulation, graphing, trig functions, systems of 2 linear equations, quadratic equations, vectors, exponential and log finding and variations. The student is expected to solve algebraic expressions and word problems describing applications and requiring ac curate manual or calculator computations.

Mathematics 1 (Civil, Survey, Hyd. Survey, Aerial Survey, RAC/ Solar)

The student will demonstrate basic skills, and be able to properly employ them in specific applications, in trigonometry, solution of linear equations, formula manipulation, variation, solution of systems of linear equations, law of exponents.

Mathematics 1 (Electrical Control Technician)

This course includes basic algebraic perations, functions and graphs, sysens of two and three linear equations, some determinants, quadratic equators, exponents, radicals, logarithms, equations and graphs of exponential and logarithmic functions, trigonomepic functions and vectors.

Mathematics 1 (Electronics & Computer Engineering)

Fundamental concepts and operations; functions and graphs; trigonometric functions; systems of linear equations (2 equations in 2 unknowns); factoring and fractions; quadratic equations; trigonometric functions of any angle; vectors and oblique triangles; exponents and radicals; exponential and logarithmic functions and variation.

Mathematics 1 (Industrial/ Mechanical)

Fundamental concepts and operations; functions and graphs; trigonometric functions; systems of linear equations (2 equations in 2 untrowns); factoring and fractions; quadratic equatic trigonometric functions of any angle; vectors and oblique triangles; equations; exponential and legarithmic functions and variation.

Mathematics 2 (Architectural)

Vectors and oblique triangles; systems of linear equations (three equations in three unknowns); exponents; apponential and logarithmic functions; additional types of equations and systems of equations.

Mathematics 2 (Civil, Expl., Survey, Hyd. Survey, RAC, Solar, Energy Mgmt.)

The students will demonstrate basic dils and be able to properly employ them in specific applications in systems of linear equations, logarithms, addratic equations, systems of equations and analytic geometry.

Mathematics 2 (Electrical Control)

This course includes graphs of trimometric functions, trigonometric dentities, complex number (rectangua, polar and exponential forms), the analytic geometry (straight line, acle, ellipse, parabola, and hyperola), arithmetric and geometric promession, and binomial theorem.

Mathematics 2 (Electronics & Computer Engineering)

Math 2 consists of the following sections: vectors and sinusoids; complex numbers and applications to RLC circuits, systems of three linear equations in three unknowns; quadratic equations (imaginary roots), additional types of equations and systems of equations; and a continuation of programming in BASIC in first semester.

Mathematics 2 (Mechanical/ Industrial)

Topics to be covered include three linear equations in three unknowns, use of semi-log and log-log graph paper, additional types of equations and systems of equations, equations of higher degree, plane analytic geometry, progressions and the Binomial Theorem and trigonometric equations and identities.

Mathematics 3 (Architectural)

Ratio and proportion; variation; arithmetic and geometric progressions; plane analytic geometry.

Mathematics 3 (Electrical Control)

This course includes derivatives and their applications – limits, differentiation of polynomials, products, quotients and power of functions, related rates, maximum and minimum; definite and indefinite integrals, area and volume determination by integration, other applications of integration.

Measuring Instruments 1 (Mechanical)

This course includes a review of basic physics as applied to instrumentation, and principles of sensing, measuring, computing and integrating elements and components used in the industrial measurement and control of pressure, temperature, liquid level, liquid and gas flow.

Mechanical Design and Drafting

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The objective of this course is to enable the student to make pattern and machine drawings for castings; design and draw weldments, making use of standard welding symbols; lay out sheet metaldevelopments; and design and draw parts fabricated by machining.

Mechanical Design and Drafting

Upon completion of this course the student will be able to design and draw storage tanks and piping systems, design and draw structures for the support of machines and design and draw pneumatic and hydraulic cylinder systems.

Mechanical Design and Drafting 3

This course will enable the student to develop the skills to design and draw gear reduction units, and to design and draw conveyors and components.

Mechanical Power Transmission

This course is an introduction to the most commonly used mechanical power transmission elements. It discusses belts, chains, shafting, bearings, seals and gear type reducers. The student in this course will select those based on calculations considering load and performance requirements and design complete drive units.

Mechanical Technical Drawing

The student will be able to make drawings incorporating Canadian standards for first and third angle orthographic projection, dimensioning, sectional views. screw thread symbols, welded joints, fits and tolerances, surface finishes, assembly drawings and isometric drawings.

Mechanics

This course is an introduction to Mechanics with emphasis on analytical problem solving. It serves as a background to higher level or special courses dealing with specific aspects of Mechanics. The contents include vectors, translational and rotational equilibrium, linear and rotational motions, work, energy and power.

TECHNOLOGY

Methods of Microbiology

The student will study the basic techniques required in the identification of micro-organisms. A background in taxonomy and biochemistry will help the student to understand the principles which underlie the laboratory techniques. Areas of study include microbial nutrition, energy transformations, microbial ecology and rapid methods for the identification of micro-organisms.

Microcomputer Controls 1

This course will provide the student with a basic knowledge of microprocessor hardware, programming and interfacing, using the INTEL 8085 microprocessor. The student will be able to understand the terminology, interface an 8085 based single board microcomputer to the outside world through programmable input-output devices, and develop appropriate software to perform simple I/O operations and processing. The student will acquire some exposure to other microprocessor systems.

Microcomputer Controls 2

The operation of the microprocessor SDK-85 is reviewed with an accent on applications for various mechanical and electrical controls. Hardware and software is discussed enabling the students to write their own program in machine language.

In lab-experiments the students will build and use power-interface circuitry for time sequence controls and 3 phase-inverters.

Microcomputer Systems 1

This course deals with the fundamentals of microprocessor hardware, programming, andinterfacing. The student will learn the architecture of the 8085 microprocessor, standard interfacing techniques, and the structure of a typical 8085-based single board microcomputer. He/she will be able to interface the microcomputer to the outside world through programmable I/O devices, and develop appropriate software to perform simple processing and I/O operations. In addition, the student will acquire a general knowledge of other microprocessors.

Microcomputer Systems 2

The emphasis in this course is placed on the development of software skills. In the first part of the course the student will learn the steps of assembly language programming in a VAX/ VMS-based hosted software environment, and in the second part he/she will develop programs which utilize the resources of the CP/M operating system.

Model Making 1

TECHNOLOGY

Models are used as three-dimensional aids in the architectural design process, and as a means of communication of completed

architectural concepts. The student

will investigate both of these areas of model-making through the construction of a series of models, exploring a variety of approaches, techniques, and materials.

Modern Architecture History and Design 1

This course consists of Western Architectural History from the Egyptian period to the early eighteenth century.

Motion Study

The student will learn to analyse the various body motions employed in doing a job with the purpose of eliminating or reducing ineffective movements.

Through the use of visual motion study and micromotion study, the student will learn to analyse a given method and develop an efficient work centre.

The student will learn to establish standard times for manual operations using synthetic basic motion times systems.

Motors and Controls

After a brief introduction to the general concepts of electrical power distribution the student will be confronted with the principles of mechanical forces exerted by static and dynamic magnetic fields. The student will then study DC and AC-motors as applications of these forces. The student will analyse typical DC/AC motors and their control circuits in selected laboratory experiments.

Municipal Services 1

By applying the principles and techniques of hydraulics, municipal regulations and hydrology, the student will be able to: understand open channel flow; perform hydraulic calculations for open-channel flow and flow in pressure conduits; design the strength of buried pipes; compute run-off, time of concentration, and other parameters to design storm drainage systems; and design culverts and various types of open channels.

Navigation

This course acts as an introduction to the basics of coastal navigation. Students will become acquainted with accepted marine principles of tide calculation, position and direction, plotting techniques and passage planning. In addition, students will learn Radio-Telephone techniques and take the Ministry of Communication examination. The course culminates with the Canadian Yachting Association Coastal Navigation exam.

Numerical Control 1 (Manufacturing, Mechanical Drftg., Tool & Die, Electromechanical programs)

Students completing NC1 shall be able to operate CNC equipment in manual-jog-tape-MD1 and memory modes. Also, students will be able to write part programs for simple drilling-milling and turning applications, prepare control tapes using the NC edit mode of the VT-100 alike terminals, read programs into memory, debug the programs and successfully run them on the SL-3 and MCV 410 system.

Numerical Control 1 (Numerical Control Technician)

Students completing NC1 shall be able to operate CNC equipment in manual, tape, MD1 and memory modes. Also, they will be able to write and edit part programs and prepare control tapes for basic milling and turning applications.

In addition, they will be able to select the required machining parameters. They will also have a knowledge of acoustic tool breakage control and in process gauging control.

Numerical Methods

This course is an introduction to the solution of a variety of basic engineering and mathematical problems by computational methods. Topics covered will include numerical differentiation and integration, and examples of commercially available floating point packages.

Occupational Health (Chemical Substances)

This course is an introduction to the fundamentals of Occupational Health. The course covers the recognition, evaluation and control of health hazards in a working environment using toxic substances and dusts.

Occupational Health (Physical Agents)

This course is an introduction to the fundamentals of Occupational Health. The recognition, evaluation and control of health hazards in the working environment involving physical agents such as noise, vibration, heat/cold, light, ionizing radiation and non-lonizing radiation, are studied.

Organic Chemistry 1 Laboratory

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An introduction to organic laboratory techniques, including simple distillation, steam distillation, liquidliquid extraction and recrystallization. Students will also perform identification tests and organic synthesis.

Organic Chemistry 1 Lecture

A study of nomenclature, preparation, reactions, and uses of aliphatic hydrocarbons and aromatic hydrocarbons. This course will include industrial preparation of organic compounds and analysis of organic compounds.

Organic Chemistry 2 Laboratory

Students will conduct experiments on aromatic compounds, synthesize organic compounds, including pharmaceuticals, polymers and detergents.

Organic Chemistry 2 Lecture

A study of the chemistry of aliphatic and aromatic compounds and organic reactions in terms of functional groups. This course covers benzene and aromaticity, phenols, ethers, carboxylic acids and derivatives of carboxylic acids, aldehydes and ketones, and an introduction to stereochemistry.

Outboard Engines & Marine Drive Trains

A primarily hands-on course, using line engines which will involve students in the disassembly, repair and reassembly of outboard motors. The course will also provide students with an opportunity to use parts and service manuals, apply shop safety principles, and test and tune outboards.

Photogrammetry 1

Students should be able to: see aerial photos in stereo with stereoscope: determine tower heights, photo tilt and scale from single photos; determine elevation of ground from photo pairs. stereoscope and parralax bar and prepare a model ready for map compilation in a stereo plotting instrument.

Physical Chemistry

The student will learn to solve problems through application of the Principles of physical chemistry: the gas laws, acid-base equilibria, spectra and the first law of thermodynamics.

Physics (Heat, Light & Sound)

In this course, the general laws goveming wave motion and sound, light and heat are studied. This includes the relationship between the speed of a wave and the frequency and wavelength, the formation of standing waves, and resonant phenomena.

In the second part of the course the basic principles of illumination are described. Light is studied as another form of wave motion, and the phenomena of interference, diffraction, reflection and refraction are described.

In the final section of the course, the nature of heat is discussed. Topics covered include temperature scales, the specific heat of a body, changes of state, and the three basic methods of heat transfer, conduction, convection and radiation.

Physics (Mechanics and Waves)

This course is introduced with a review of measurement units, and technical mathematics. The use of vector analysis is described.

The concept of mechanical equilibrium is introduced, and used to solve problems involving translational and rotational equilibrium. Other topics include motion, Newton's laws, the force of friction, work, energy and power, and the mechanical properties of matter.

Physics 1

This course is an introduction to mechanics. It includes vector machines, translational and rotational equilibrium, accelerated motion. Newton's second law of motion, work, energy and power, impulse and momentum, uniform circular motion, rotation of rigid bodies, simple machines, elasticity and topics on fluids. Analytical problem solving will be emphasized. Laboratory work will also be included.

Physics 2

This course is designed to give the student an understanding of simple harmonic motions and the nature of heat and light. Topics studied include simple harmonic motion, temperature and expansion, quantity of heat, heat transfer, thermal properties of matter, thermodynamics, reflection and mirrors, refraction, lenses and optical instruments, polarization, diffraction, interferance and the nature of lights. Analytical problem solving will be emphasized. Laboratory work also forms an important part of this course.

Plant Layout

This advanced course, emphasizing economic realism, will enable the student to specify production facility and capacity requirements for a multiproduct manufacturing plant of about \$2,000,000/yr. He/she will integrate material handling, warehouse, inventory and material control to produce an optimum layout design, then redesign to suit a new product mix.

Plant Layout and Material Handling

This is a primary course in plant layout emphasizing the essential coordination of plant layout, material handling, industrial engineering, production control and industrial safety, from a practical standpoint. It is the objective of this course to convey the fundamentals of material handling and layout from a quantitative viewpoint. Economic realism will be emphasized in all projects.

Pneumatic Instruments

To provide the student with a sound working knowledge of instrument air supplies; pneumatic components, subassemblies and pneumatic components, subassemblies and pneumatic instruments. Students should be able to understand principles of operation, install, calibrate and troubleshoot these instruments.

Power Systems

A course dealing with the problems encountered in power systems handling electrical energy and the equipment used to operate these systems. Topics included are: common system layouts, switching arrangements, the single-line diagram; conductors, insulation and hardware: overhead, underground construction; abnormal currents and voltages, protective equipment and switchgears, metering, metering circuits and protective relaying.

Practical Photogrammetry

The course will include: review of inner, relative and absolute orientation; extensive practice in the set-up of stereo models on a variety of instruments; the use of stereo plotting instruments in the compilation of planimetric and topographic maps; practice in the measurement of plates on a stereo-comparator for analytical triangulation. TECHNOLOGY

Principles of T.V.

The television course examines the signals and waveforms of the NTSC black and white and colour service. The student will follow these signals through the chassis of a modern TV receiver and will explain the operation of each circuit encountered.

The student will be shown how to make a colour set-up by use of a colour bar generator. Video games will be described in terms of how numbers and moving dots are generated on the CRT. Conversion of a B & W T.V. receiver to a computer monitor and interface to the computer will be discussed.

Problem Solving With Pascal

Structured Programming in Pascal and methodical approach to using Pascal to simulate and solve practical problems will be discussed. The prerequisite is the successful completion of 'Introduction to PASCAL' course or the knowledge of PASCAL primer.

Process Industries and Plant Safety

This course will familiarize the student with various Chemical Process Industries, in terms of principles of chemical engineering, economics, and safety.

Production and Inventory Control

In this course students learn to specify techniques necessary to synchronize the work of those concerned with production; to provide procedures for forecasting the required plant output, raw material flow, equipment and labour scheduling through the stages of manufacturing; to determine warehouse levels and order quantities to maintain low costs, meet delivery dates and assume the highest quality with the minimum of capital investment.

Programming Languages

TECHNOLOGY

The features and characteristics of FORTRAN and C are covered in this course on programming languages.

Project Management

Training students in planning and controlling non-repetitive projects using the techniques of PERT, CPM and their derivatives is the objective of this course. The student will be taught to formulate an effective project plan and schedule, and methods of controlling the direction of the project to successful completion after the project has begun.

Psychrometrics

The analysis of air conditioning processes, specification and designing systems using a psychrometric chart as a tool will be the aim of the course. It also prepares the student for more advanced studies of equipment selection, commercial and residential systems.

Quality Control

Upon completion of this course the student will be able to use fundamental concepts of probability and statistical process control. The student will also be able to use various quality concepts and techniques such as quality budgets, design review, vendor certification, inspection and test planning and non-conforming material disposition. The student will also be able to apply various reliability analysis techniques.

The course is designed for those students who have successfully completed Statistics and Metrology.

Refrigeration Systems 3 (Commercial)

In this thorough review of low temperature and various commercial refrigeration systems, equipment and practices, the emphasis will be on design, analysis and evaluation.

Refrigeration 1

The student will learn the basic principles of thermodynamics and their application to the refrigeration system. The course also deals with the purpose and operation of the various component parts used in the system in preparation for a more detailed study in Refrigeration 2.

Refrigeration 2

The student will learn the application of fundamentals learned in Refrigeration 1 to more complex systems and an in-depth study of equipment and component parts including their correct sizing and application. The course also encompasses the operation and characteristics of centrifugal and absorption systems.

Rendering Techniques 1

The student will be able to produce (a) plan and elevational presentation drawings using basic pencil techniques, including different technical and artistic aspects such as (b) technical shading, rendering of different building materials and landscaping, one-point, two-point (vanishing point) perspective drawings, with supporting elements, such as landscaping cars and people.

Residential Systems

The student will size, select and specify residential forced air heating and cooling equipment. Gas, oil and electric energy systems are compared with respect to their designs, rating components, control requirements and installation. The course includes blowers and motor sizing, humidification equipment, and electronic cleaning methods.

Safety Program Development

Having completed five semesters of specialty courses for Safety and Occupational Health, this course is designed to allow the student to undertake indepth, on-the-job analysis and/or development of a viable safety program.

Sailing School, Charter Fleet Operation & Yacht Brokerage

In three parts, this course examines the organizational and operational aspects of running a sailing school, investigates the mechanics of a charter fleet operation and yacht delivery and will provide an overview of yacht brokerage.

Sails & Rigging

An introduction to the fundamentals of traditional and contemporary yacht rigs and sails. The course will deal with the basic concepts of engineering applied to masts, rigging and related hardware. Students will become acquainted with the theory of how sails work, basic sail design materials and construction.

Seamanship 1 - Small Boat Handling, Power& Sail

A basic course, this on-the-water program is designed to acquaint the student with the handling characteristics of small sail and power vessels in varying confined and lake conditions. The sailboat portion provides instruction to the Canadian Yachting Association White Sail Level 2.

Seamanship 2 - Power& Sail Yacht Handling

This course is designed to provide the student with practical experience handling larger yachts, under sail and power. The sailboat portion provides instructions to the Canadian Yachting Association Basic Cruising Standards.

Site Management Technology 1

The student will study the in-house relationships and inter-relationships between owner, engineer and contractor. The roles of various personnel involved in the management process will be examined. Methods of site management will be studied including administration. contracts, cost control, project scheduling, inspections and jurisdiction, final takeover and guarantees.

Small Craft Electronics

A basic introduction to the hardware of small craft electronics, emphasizing the sale, installation and maintenance of such hardware in a marina and yacht club environment.

Software Projects 1, 2 and 3

These courses use case studies drawn from industry to simulate an industrial programming environment.

Soil Mechanics

On completion of this course in the fundamentals and basic principles of soil mechanics, the student will be able to assist in routine laboratory and site testing of soils for its application in the construction industry.

Solar Lab

The student will perform a set of designated laboratory exercises which will expand on and illustrate the principles studied in Solar Energy 1.

Solid State H.V.A.C. Controls

This course provides the student with basic electronic technology used in control systems. This will include the operation and use of transistors and diodes. Various circuits including power supplies and amplifiers will be studied.

Specification Writing

The student will interpret and apply specifications as a technical and legal element of the contract documents. The students will participate in the Presentation of specifications compatible with working drawings.

Standard Operating Procedures & Office Routine

This course encompasses the basic office procedures including bookkeepbe, file maintenance, fundamental accounting, payroll records, banking, word processing, cash flows and corporate structures. Small business startup, credit control, office equipment, purchasing methods and legislation effecting the day-to-day operations of a marina or yacht club business are some of the areas covered in this rather broad program that will familiarize the student with maintaining a sane and smooth running office environment.

Statics (Mechanical & Civil Programs)

This course is primarily a problem solving course which prepares the student for more advanced and specialized courses requiring a general knowledge of equilibrium. It provides the student with an approach and a method of analysis of practical systems. Emphasis will be placed on physical problems which will require an elementary knowledge of our physical world.

This course is designed for Technology students who have successfully completed the first semester Mechanics & Mathematics courses.

Statics and Strength of Materials

A continuation of statics with the introduction of the concepts of internal forces in members, compression and tension, simple stress, simple strain, shear and moment in simple beams, as found in basic architectural structures.

Statics: Architectural

Working from a firm qualitative understanding of the nature of forces, types of loads, bearing and non-bearing structural elements, and types of structural systems, the student will progress to the basic quantitative concepts of resolution of forces, equilibrium, reactions, couples, moment, free-body diagrams and centroids.

Statistics (Chemical)

This course introduces the student to many of the important statistical concepts and procedures necessary to evaluate data and to make better decisions associated with chemical experiments. The course is divided into descriptive statistics, sampling theory and practice, and changes and forecasting.

Statistics (Industrial/Safety, Manufacturing)

Students will learn measures of central tendency, measures of variation, frequency distributions and their pictorial presentations, binomial distributions, poisson distributions, normal distributions, sampling distributions, confidence intervals and curve fitting.

Statistics (Transportation Planning, Hydro Survey& Survey)

Students will learn matrix algebra operations and will review the following matrix operations: matrix addition and subtraction, scalar multiplication, matrix multiplication and inversion and evaluation of determinants. They will also solve problems involving the use of matrix operations on the mainframe computer.

Stoichiometry

By mastering the basic principles of chemical stoichiometry, the student will be able to logically analyse and solve chemical problems and to understand the chemical principles letter.

Stress Analysis

This is a continuation of the course in Basic Strength of Materials with special emphasis on the stress developed in mechanical components due to static and dynamic load conditions. An introduction to more advanced techniques is included.

Structural Drafting (Architectural)

The student, using the basics of structural drafting, will produce structural drawings; plans; sections and details of wood; steel; and reinforced concrete structures for given buildings.

Structural Drafting (Civil)

Having acquired the drafting skills learned in the basic course "Construction Technical Drawing", the student on completion of this follow-up course will be able to draft structural layouts used for working drawings in steel, and timber. Concrete layouts will be confined to footing and retaining wall details.

Survey Camp 1

In a two-week period the student will work on several projects such as; retracing of a legal boundary, determination of volume from contours, layout of a long obstructed line, tracing of a contour and topographic survey with autoreduction instrument.



Survey Computations

The student will be able to: solve the quadrilateral by general sine law; use coordinates to calculate intersections of lines and circles; use polar coordinates; calculate the coordinates of a right angle offset, the coordinates from observed distance, the transverse with an inaccessible terminal and transverse tied into an azimuth and position control; and do the simple transformation of coordinates. Problems will be solved with the use of hand calculators and computers, using CoGo programming language.

Survey Drawing 1

The student will be able to do freehand lettering and sketching in pencil as well as use 'leroy' equipment for mechanical lettering in ink and also linework in ink.

Survey Drawing 2

Students will be able to produce various survey plans using field notes of actual surveys and performing necessary calculations.

Survey Law 1

The student will be able to describe the evolution of the Survey Profession in the Province of Ontario and the Statutes related thereto, namely The Surveyors Act and The Surveys Act.

Survey 1

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Students will be able to measure distances with a steel ribbon tape, use the engineer's transit to measure angle by repetition, use the dumpy level to determine differences in elevation, locate permanent features on the earth's surface with respect to traverse lines, use the method of spot levelling to determine elevations of selected points and to do the calculations related to the above objectives.

Survey 2

TECHNOLOGY

Students will be able to operate an optical theodolite and an automatic and tilting level, determine trigonometric elevations, do the stadia surveys, survey the profile and cross-sections, draw the plan of location surveys and stadia topography. Students will also be able to perform calculations related to the above mentioned surveys.

Surveying

The student will perform distance measurements with the steel tape, an-

gular measurements with the engineering transit, determine elevations with the use of the dumpy level, locate permanent objects with respect to traverse lines and the plotting of a plan of surveys performed. The student will also do some basic calculations related to plan surveying.

Surveying 1

The student will measure distances with a steel ribbon tape, use the engineer's transit to measure angle by repetition, use the dumpy level to determine differences in elevation, locate permanent features on the earth's surface with respect to traverse lines, use the method of spot levelling to determine elevations of selected points and do the required calculations.

Surveying 2

The student will be able to operate an optical theodolite and an automatic and tilting level, determine trigonometric evaluations. do the stadia surveys, survey the profile and cross sections, draw the plan of location surveys and stadia topography. Students will be able to perform calculations related to the above mentioned surveys.

Technical Project (Civil)

The technical project will consist of 3,000 to 5,000 words in the body of the report on a subject related to the students' course of study. The report may be an account of research work done or a comprehensive study of some topic which would demonstrate technologist level of technical and mathematical depth and report writing expertise.

Technical Project (Electronics)

The student will select and complete a suitable TECHNICAL PROJ-ECT. It could involve the design of hardware or software or an indepth library study of some electronics topic. Upon its completion the student will be more knowledgeable in some technical topic.

Technical Project (Field) (Manufacturing)

The student will explore in some depth a technical subject and then present it in report form. The presentation will be in line with some of the basic rules of report writing. An attempt will be made to organize plant tour activities in line with the subject (theme) chosen.

Technical Project and Report (Solar)

A continuation of Solar Project I, students will complete their detailed study of a particular topic in the solar energy field. The project will be conducted with the guidance of a staff member and will result in a fully documented report, complete with drawings, all relevant supporting data and a working prototype or computer program (where applicable). Each student will give a seminar presenting the results of the project.

Technical Report (Chemical)

The students will initiate, research, prepare, write up, type and present a 4,000 to 5,000 word report relating to a predetermined topic in their field.

Technical Report (Civil)

The student will be instructed in the areas of sound technical report writing and will be required to produce concise, grammatically error-free reports on topics including: minutes of meetings, resume writing, site inspections and laboratory tests.

Technical Report (Explosives)

The student will be able to: choose, research, prepare, write up and type a 4000 to 5000 word report relating to the development, manufacture storage or field use of explosives.

Technical Report (Solar)

The student will carry out a detailed technical study on some aspect of solar energy science or technology. The project will be selected in consultation with a staff member and result in a fully documented report, complete with drawings and all relevant supporting data.

Technical Report (Survey)

The student will be able to prepare. perform and report on a survey-related project that will test the practical ability and theoretical knowledge acquired during the college studies, under the supervision of the instructor. The final result of the project will be an elaborate written report containing planning, field records, calculations, diagrams, plans, theoretical proofs, accuracy analysis, research, procedures, possible improvements, or any other aspects of the project.

H60

Telecommunication Systems

The operation and characteristics of the analog telephone system are investigated, along withFDM systems, narrow and broadband operation of transmission lines. cable types, and low speed asynchronous modems.

Theory of Traffic Flow

The student will be able to perform calculations regarding the safe motion of vehicles. This includes friction forces between tires and asphalt, acceleration and deceleration rates, stopping distances, centrifugal forces, superelevation, and safe highway curves.

TimeStudy 1

This course introduces Industrial Engineering, describing its place in the world of business and providing an overview of its functional areas. Topics include: productivity and method engineering as a method of increasing productivity, principles of work measurement, time study.

Tool& Fixture Design

This course will enable the student to understand what tool design is and its place in industry. Procedures of blueprint reading for tool design purposes, tool drafting, vs other drafting techniques; selection rules for dimensioning and tolerancing will be discussed. The student will be involved in drafting and form cutting tools, gage design, clamping and holding fixtures for N.C. equipment and drill jigs. Knowledge of mechanical drafting is deemed essential.

Total Loss Control

Health and safety problems represent a loss of people in the workplace, on the highway, in their homes and at recreation. Cost effective programs can be developed that reduce these problems and provide an improved quality of life in our society.

Inffic Survey Methods

Upon completion of the course, the Sudent will be able to use a variety of laffic survey instruments, various methods of data collection and will be able to analyse and report the informaton collected for use in different kinds of traffic and transportation studies.

Transportation Design Systems

Having completed the course the student will have an overall knowledge of the various transportation systems. He will be able to weigh the advantages of the various modes of transportation under given circumstances.

Transportation Planning Project

The student will be able to perform tasks as a member of a planning study group.

The student in performing this task will be able to carry out library research, collect data by consulting reports of similar studies or by preparing, distributing and evaluating questionnaires. He will be able to analyse the accumulated information and to inform the group of results, conclusion and recommendations.

The student will be able to initiate, organize and guide subgroups to perform such dependent tasks as will be needed to complete the general task.

Troubleshooting

The emphasis of this course is on allowing the student to develop reliable troubleshooting procedures necessary for the rapid repair of analog or digital prototype or failed equipment encountered in the field.

The student will learn to select and use the appropriate test equipment, to effectively locate faults in discrete and integrated circuit analog and digital equipment.

Urban Transportation & Mass Transit

This course is intended to give the student a fundamental understanding of the determinants of public transit demand and mass transit's role in the development and redevelopment of urban areas.

The understanding and application of the various methodologies and survey techniques available to assist the transportation practitioner with the planning and laying out of transit networks, service design, service scheduling and network evaluation and analysis will constitute the majority of the study program.

The course will include the study and evaluation of various transit systems in operation today.

Workshop Practices

The purpose of this course is to familiarize the student with instrument shop practices. Students will gain an understanding of the basic principles of safety; learn how to prevent accidents and develop procedures to be followed in case of accident; and gain understanding of properties of various metals, metal tubing; and learn the proper use of tools, and measuring instruments. Students will also learn to perform practical tasks such as use of micrometers, fabricate pointer puller, fabricate manifold, perform tube bending and learn soldering techniques.

Yacht Design 1

A basic introduction to the fundamentals of yacht design, with emphasis on the basic concepts of buoyancy, flotation and stability.

Yacht Design 2

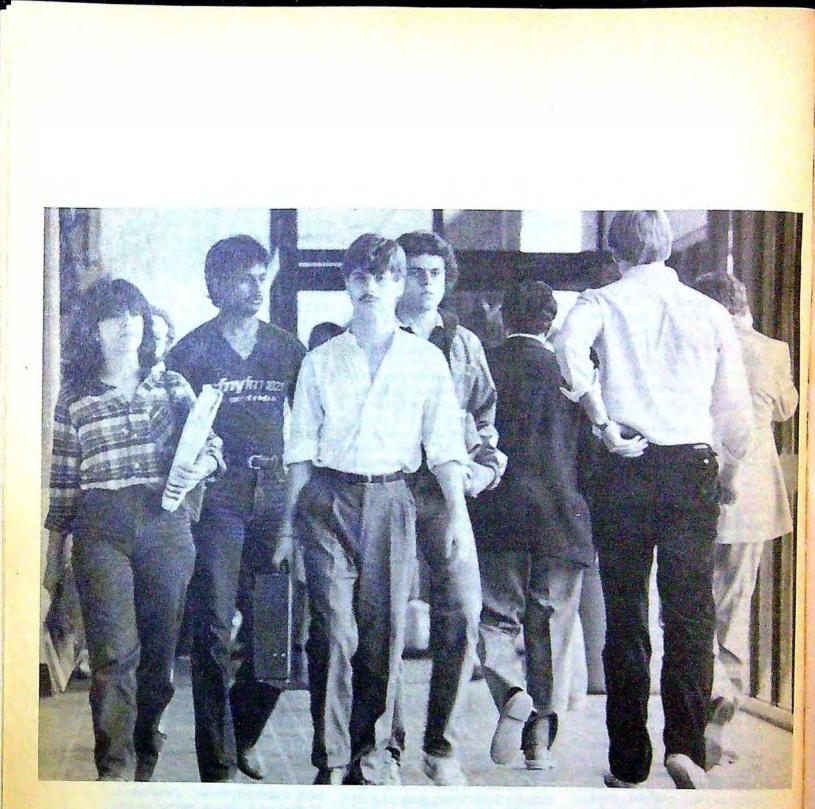
This intermediate course on yacht design, with emphasis on the hydrodynamics of sail and power yachts will help understand design drawings.

Yacht Maintenance& Repair 1

A basic introduction to the practical maintenance and repair of fibreglass, wood, steel, aluminum, and ferrocement yacht hulls, decks, superstructures, and ancillary equipment. Fall haul-out, lay-up procedures and winterizing procedures will be included.

Yacht Maintenance and Repair 2

Building on the concepts and skills studied in Yacht Maintenance & Repair 1, this course will also deal with spring tune-up, commissioning of boats and the repair and maintenance of small craft systems (pumps, stoves, heads steering). The course, heavily practical in nature, will also involve students in the launching of sail and power boats in a marina or yacht club setting.

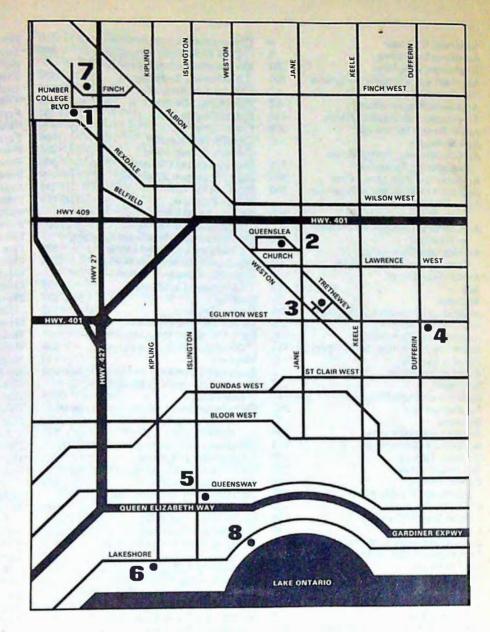


Campus Locations

- 1 North Campus 205 Humber College Blvd., Rexdale, Ont. M9W 5L7 Phone: (416) 675-3111
- 2 Osler Campus 5 Queenslea Avenue Weston, Ont. M9N 2K8 Phone: (416) 249-8301
- 3 Keelesdale Campus 88 Industry Street Weston, Ont. M6M 4L8 Phone: (416) 763-5141
- 4 York-Eglinton centre 1669 Eglinton Ave. W., Toronto, Ont. M6E 2H4 Phone: (416) 763-5141
- 5 Queensway Campus A 56 Queen Elizabeth Blvd., Toronto, Ont. M8Z 1M1 Phone: (416) 252-9441

Queensway Campus B 70 Queen Elizabeth Blvd., Toronto, Ont. M8Z 1M3

- 6 Lakeshore Campus 3199 Lakeshore Blvd. W., Toronto, Ont. M8V 1K8 Phone: (416) 252-5571
- 7 Humber Tower Kellogg Salada Canada Inc. 6700 Finch Ave. W., Rexdale, Ont. M9W 5P5
- 8 Humber College Sailing School Humber Bay (West) Lakeshore Boulevard West of Park Lawn Rd.



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 *Office Systems Administration Program Office Systems Operations OSAP (Ontario Student Assistance Program) *Package Design Packaging, Industrial Maintenance Mechanic Parking Part-time Studies Personnel Management *Pharmacy Assistant Photography, Creative Physical Education Placement Services 	216 208 C 119 539 D2 A2 210 310 109 D1 D2	Word Processing Supervisor * Yachting Studies Technician now Small Craft & Marine Technologist
 *Office Systems Administration Program Office Systems Operations OSAP (Ontario Student Assistance Program) *Package Design Packaging, Industrial Maintenance Mechanic Parking Part-time Studies Personnel Management *Pharmacy Assistant Photography, Creative Physical Education Placement Services Post-Diploma Nursing 	216 208 C 119 539 D2 A2 210 310 109 D1 D2 318	Word Processing Supervisor * Yachting Studies Technician now Small Craft & Marine Technologist
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 *Office Systems Administration Program Office Systems Operations OSAP (Ontario Student Assistance Program) *Package Design Packaging, Industrial Maintenance Mechanic Parking Part-time Studies Personnel Management *Pharmacy Assistant Photography, Creative Physical Education Placement Services Post-Diploma Nursing Post-Graduate Programs 124, 313 Precision Instrument Mechanic/Technician Product and Furniture Design (now Industrial Design) *Public Relations *Radio Broadcasting Radio and T. V. Receivers- Electronics 	216 208 C 119 539 D2 A2 210 310 D1 D2 318 -318 544 118 113 114	Word Processing Supervisor * Yachting Studies Technician now Small Craft & Marine Technologist
 *Office Systems Administration Program Office Systems Operations OSAP (Ontario Student Assistance Program) *Package Design Packaging, Industrial Maintenance Mechanic Parking Part-time Studies Personnel Management *Pharmacy Assistant Photography, Creative Physical Education Placement Services Post-Diploma Nursing Post-Graduate Programs 124, 313 Precision Instrument Mechanic/Technician Product and Furniture Design (now Industrial Design) *Public Relations *Radio Broadcasting Radio and T, V. Receivers- Electronics Certificate 	1216 208 C 119 539 D2 A2 210 310 109 D1 D2 318 -318 544	Word Processing Supervisor * Yachting Studies Technician now Small Craft & Marine Technologist
 *Office Systems Administration Program Office Systems Operations OSAP (Ontario Student Assistance Program) *Package Design Packaging, Industrial Maintenance Mechanic Parking Part-time Studies Personnel Management *Pharmacy Assistant Photography, Creative Physical Education Placement Services Post-Diploma Nursing Post-Graduate Programs 124, 313 Precision Instrument Mechanic/Technician Product and Furniture Design (now Industrial Design) *Public Relations *Radio Broadcasting Radio and T. V. Receivers- Electronics Certificate Recreation Leadership 	216 208 C 119 539 D2 A2 210 310 D1 D2 318 -318 544 118 113 114 545 121	Word Processing Supervisor * Yachting Studies Technician now Small Craft & Marine Technologist
 *Office Systems Administration Program Office Systems Operations OSAP (Ontario Student Assistance Program) *Package Design Packaging, Industrial Maintenance Mechanic Parking Part-time Studies Personnel Management *Pharmacy Assistant Photography, Creative Physical Education Placement Services Post-Diploma Nursing Post-Graduate Programs 124, 313 Precision Instrument Mechanic/Technician Product and Furniture Design (now Industrial Design) *Public Relations *Radio Broadcasting Radio and T. V. Receivers- Electronics Certificate Recreation Leadership Refresher Programs 537. 	216 208 C 119 539 D2 A2 210 310 D1 D2 318 -318 544 118 113 114 545 121	Word Processing Supervisor * Yachting Studies Technician now Small Craft & Marine Technologist
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	Bookstore	675-5044
	CL Registration	675-5005
	Part-Time Information	
	Counselling	675-5090
	Financial Aids Office	675-5001
	Housing Information	675-5053
	O.C.A.P. (training	675-5066
	on the job program)	
	Placement	675-5028
	Registrar's Office	675-5000
	Full-Time Information	
	Secondary School Liaison	675-3111
		Ext. 4301
	Keelesdale Campus	763-5141
35	Lakeshore Campus	252-5571
9.4	Osler Campus	249-8301
Sugar	Queensway A + B Campuses	Service and a service of
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	Technical short programs	
Marsh 2	York-Eglinton Campus	763-5141

Declaration of Waiver

The information in this calendar is accurate as of August 1, 1984. The College does its best to up-date calendar information regularly so that students are not inconvenienced. However on occasion, changes do occur. Therefore, after August 1, 1984, the College reserves the right to modify or cancel any program, option, course, program objective, fee, timetable or campus location without notice or prejudice. It is also the College's right to schedule classes any time, Monday through Saturday. Students should be aware that it may be necessary for them to take a course or courses during the evening or on Saturday.

Project Manager: Lori Fournier Manager, Publications and Advertising: Charlotte Boulanger

Design: Kelly Lavoie & Associes, Peter Perko Production: Christine Little, Peter Perko Photography: Tony Moore (cover), Steve Behal, Gary Gellert At the time of this photograph, our models were all Humber students. From left to right, back cover to front cover, they are: Cameron Hobden, Electronics; Liliana Conte, Fashion Modelling; Anna Kunz, Public Relations; Stacey Nishimura, Marketing; Darrell Kublick, Civil Engineering Technologist; Teresa Wiacek, Public Relations; Louis Tucci, Theatre. Published by Humber College, 205 Humber College Blvd., Rexdale, Ontario, M9W 5L7 (416) 675-3111

