

Memorial University of Newfoundland

A GUIDE TO FIRST YEAR

2007 - 2008

30th Edition

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The Academic Advising Centre is the administrative unit of Memorial University whose major responsibility is the first-year student. From our many years of experience in talking to students in high schools and in the university we have obtained a good idea of the types of questions and concerns you have. This booklet, *A Guide to First Year*, attempts to answer many of your questions about the first year at Memorial University.

This *Guide* includes information on admission to the university, available student services and support systems, financial information and much more. There is an extensive section on course requirements for entrance into specific faculties and schools, as well as descriptions of first-year courses.

This *Guide* is produced by the Academic Advising Centre and it is designed as an aid for first-year students. It represents the academic regulations in effect as of the February 2007 meeting of the University Senate. Changes to academic regulations approved after the February meeting will be represented in next year's *Guide*. Where admissions policies, regulations and course descriptions are concerned, the provisions of the university *Calendar* are the final authority. All new Memorial students receive a free copy of the *Calendar*. Included in your orientation package will be a coupon to redeem for your copy. If you do not attend orientation, please contact Answers located in the Smallwood Centre, Room UC-3005 or e-mail answers@mun.ca for information on obtaining a free copy.

We hope this *Guide* will help you.

If you have questions concerning any of the information provided, please contact:

St. John's campus

The Academic Advising Centre
Office of the Registrar
Science Building, Room 4053
Memorial University of Newfoundland
St. John's, NL, Canada
A1B 3X9
Telephone: (709) 737-8801
Fax: (709) 737-2404
advice@mun.ca
www.mun.ca/advice

Corner Brook campus

The College Registrar
Sir Wilfred Grenfell College
Arts and Science Building, Room 277
Memorial University of Newfoundland
Corner Brook, NL, Canada
A2H 6P9
Telephone: (709) 637-6298
Toll Free: 1-866-381-7022
Fax: (709) 637-6250
info@swgc.ca
www.swgc.ca

After reading this *Guide* you may find that you have questions. There are always people who can help you find the answers.

For students who will be attending the St. John's campus, inquiries should be directed to the Academic Advising Centre.

The Academic Advising Centre staff includes:

Roxanne Preston	Manager
Marie Donovan	Academic adviser/co-ordinator, university liaison
Julie Green *	Co-ordinator, Establishing Student Relationships Project
Kelly Knight	Academic adviser/co-ordinator, university liaison
Ron O'Neill	Academic adviser/co-ordinator, university liaison
Penny-Lynn White	Academic adviser
Dianne Hussey	Administrative Officer
Roger Chafe	Clerk
Donna Batten	Senior faculty adviser (science)
Vacant	Senior faculty advisor (arts)

For students who will be attending Sir Wilfred Grenfell College in Corner Brook, inquiries should be directed to:

Sharon Noftall-Bennett	College registrar
Nicola Carlson*	Assistant registrar/senior academic adviser
Derek Jackman	Acting Assistant registrar/senior academic adviser
Carolyn Parsons	Co-ordinator, Establishing Student Relationships Project
K. Jacobsen	English Placement Test
Olaf Janzen	French
L. Bateman	Science

* currently on leave

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Part I
GENERAL INFORMATION

DIARY 2007-08

Fall Semester 2007

Lectures Begin	Sept. 5, Wednesday
Thanksgiving Holiday; fall semester break begins	Oct. 8, Monday
Lectures resume; classes will follow Monday schedule	Oct. 10, Wednesday
Lectures will follow Tuesday Schedule	Oct. 11, Thursday
Remembrance Day Holiday	Nov. 12, Monday
Classes will follow Monday Schedule	Nov. 16, Friday
Lectures end	Nov. 30, Friday
Exams begin	Dec. 5, Wednesday
Exams end	Dec. 14, Friday

Winter Semester 2008

Lectures begin	Jan. 7, Monday
Winter semester break	Feb. 18, 19, 20, Monday, Tuesday, Wednesday
Good Friday	March 21, Friday
Lectures End	April 4, Friday
Exams begin	April 9, Wednesday
Exams end	April 18, Friday

Spring Semester 2008

Lectures begin for 14-week spring semester and Intersession	May 12, Monday
Lectures end for Intersession	June 20, Friday
Exams begin for Intersession; spring semester break begins	June 23, Monday
Exams end for Intersession	June 25, Wednesday
Lectures resume for 14-week spring semester	June 26, Thursday; classes will follow the Tuesday schedule on this day
Lectures begin for summer session	June 30, Monday
July 1 Holiday	July 1, Tuesday
Lectures end for 14-week spring semester	Aug. 8, Friday
Lectures end for summer session	Aug. 9, Saturday; classes will follow the Tuesday schedule on this day
Exams begin for 14-week spring semester and summer session	Aug. 11, Monday
Exams end for summer session	Aug. 13, Wednesday
Exams end for 14-week spring semester	Aug. 16, Saturday

INTRODUCTION

When you decide to attend university, you are moving into a new realm of experience and learning. If you are coming from high school, you will find that people's expectations of you will be different from those you are used to and your expectations of yourself will begin to change accordingly.

One important difference is that you will be expected to become independent and responsible for yourself, your time and your learning. The interests you pursue, the judgments you make about what you value, how you want to live, and the degree of commitment you invest in your education, will all be your responsibility. You will be encouraged to think for yourself and undertake inquiry on your own initiative. At the same time you will find yourself encountering and assessing the views of teachers, authors, and students you meet in or outside class. Learning to make judgments involves getting to know the ideas others have articulated and, discussing them with other students, as well as questioning, challenging, trying out viewpoints, and interacting with others. You have to create knowledge; it is not something you passively absorb.

Learning in university involves remembering, of course, but it also depends on following many other strategies throughout each semester. You will need to concentrate, read carefully and be able to summarize information. Examine why you agree or disagree with an idea, realize the limits of your present knowledge and discover routes by which it may be extended. You will recognize what you want to remember and why, and follow through on your questions. Learning of this kind usually has an interesting result: What you discover in listening, in talking, in reading, and in writing finds a place in your mind and your way of thinking; it isn't just for tests; it becomes part of you. You probably won't just take a few courses and remain the person you are now. You will begin questioning your ideas on issues, assessing your values, rethinking what you thought before.

These changes are a significant part of what university is about.

All this may sound exciting and bewildering. It usually is. Most students experience a jolt - sometimes exhilarating, sometimes shattering - in making the transition between school and university. One of the main concerns is the increased level of individual responsibility. Each student has to accept responsibility for practically every phase of work at the university level. You will need to plan and organize a study schedule. The work load will be significantly increased in terms of reading and the number of assignments compared to high school. The following recommendations will help you prepare for your first year:

- Start studying as soon as classes begin
- Don't fall behind on the assigned readings
- Plan to spend at least 2 hours studying for every hour in class
- Become familiar with the library and other resource centres
- Get to know your instructors early in the semester

Faculty who teach first-year courses are available for consultation for approximately the same number of hours as they spend in class. Take advantage of this and consult with instructors whenever necessary.

The university offers many support systems to individual students: writing and learning centres; an advising system to address students' questions about their academic choices; information about programs offered at Memorial University; assistance with academic difficulties; and referrals to other support systems when necessary.

This *Guide* presents the programs available to first-year students at Memorial and descriptions of the support systems available at the St. John's and Corner Brook campuses.

ADMISSION TO THE UNIVERSITY

Application Information

The final dates for the submission of applications for admission are:

March 1	Fall semester
October 1	Winter semester
February 1	Spring semester

Note: Other deadlines may apply for some faculty or school programs. Please consult the appropriate faculty or school regulations in the current university *Calendar* for further details.

Applications received later, or post-marked later, than the stated deadline dates will be processed as time and resources permit.

To accommodate the appropriate time required for visa/permit processing, international students are encouraged to apply at least two months in advance of the fall or appropriate faculty deadlines or four months in advance of the winter and spring deadlines.

Each application must be accompanied by a \$40 application processing fee. An additional application processing fee of \$40 is required from non-Canadian applicants or applicants transferring from post-secondary institutions outside of Newfoundland and Labrador. Neither fee is refundable nor will it be credited to the applicant's financial account under any circumstances.

Applicants who have previously attended Memorial University and have not registered for courses for the past two consecutive semesters (fall, winter, spring) are required to submit a new Application for Admission/Re-admission together with the \$40 application processing fee. Applicants who have graduated from high school

with courses that are different than those listed in this *Guide*, are advised to contact the Admissions Office.

A completed application will include:

- an Undergraduate Application for Admission/Readmission
- any additional forms/applications that may be required for the program for which you are applying
- the appropriate application fee
- any required documentation as listed under your Category of Admission
- proof of English proficiency if necessary
- an application for student housing if you wish to live on campus

All required documents must be received before a final admissions decision can be reached.

All documents must be official and be forwarded directly to the Admissions Office from the appropriate institution(s) or authorities.

Photocopied documents are not acceptable unless duly certified.

Application forms and other information may be obtained by contacting:

Admissions Office
Office of the Registrar
Memorial University of Newfoundland
St. John's, NL
A1C 5S7
admissions@mun.ca
www.mun.ca/regoff/admission

ADMISSION INFORMATION

❖ English Language Proficiency

Because English is the primary language of instruction at this university, all applicants must possess an adequate knowledge of written and spoken English as a prerequisite to admission. Regardless of country of origin or of citizenship status, applicants will be required to provide proof of proficiency in the English language.

It is important to read the information below regarding the English Placement Test.

❖ Placement Tests

➤ English Language Placement Test

With the exception of applicants who demonstrate English language proficiency by way of completion of studies through an English Language secondary (three-year), or post-secondary (30 credit hours), program, all other new students will be required to write a placement test in English language. This test must be taken before the commencement of classes to determine the appropriate English course for which an applicant should register.

Students whose performance in the placement test in English language indicates that appropriate placement is in English 102F will be required to register in, and successfully complete English 102F before registering in higher level courses in English.

➤ Mathematics Placement Test (MPT)

The MPT is designed to assess mathematical skills. Your score on the test will determine if you are ready to enter your desired mathematics course with a reasonable chance of success. Applicants intending to register for the first time in any 1000 level mathematics course on the St. John's campus must submit a score for either an advanced placement calculus examination or other standardized tests acceptable to the Department of Mathematics and Statistics.

Students whose score in the advanced placement calculus examination or other standardized test is not acceptable to the Department of Mathematics and Statistics will be required to register in a mathematics course determined by the math department.

To find information about registering for, and writing the MPT, visit www.math.mun.ca.

For information on the Math Placement Test at Grenfell, please refer to page 99.

For a Synopsis and Examples representative of the Math Placement Test, please see Appendix "D" of this *Guide*.

❖ Early Final Acceptance

Applicants in their final year of high school who have achieved a minimum overall average of not less than 85 per cent in select 2000-level or grade 11 courses in the core subjects of English, mathematics and laboratory science may be granted final admission prior to the release of final high school results. This does not preclude the application of selective admission criteria for particular faculty/school programs.

❖ Provisional Acceptance

Applicants in their final year of high school who are not eligible for early final acceptance, but who have completed or who are completing a slate of courses which meets the admission requirements for their applicant category may be granted provisional acceptance prior to writing their final examinations. This provisional acceptance will remain valid until the final examination results are reported by the appropriate authority, at which time a final determination of each applicant's admission status will be made. Provisionally-accepted applicants who meet all requirements will be granted a final acceptance whereas applicants who fail to meet all requirements will have their provisional acceptance revoked. This does not preclude the application of selective admission criteria for particular faculty/school programs.

❖ Categories of Applicants

➤ Provincial and National High School Students

Applicants must complete graduation requirements for high school as determined by the appropriate authority in their province and obtain credits in the subjects shown in the Canadian High School Equivalencies chart on the next page with an overall average of not less than 70 per cent compiled from the grades received in those courses at the 3000 or Grade 12 level.

Advanced Placement: Applicants completing courses through the Advanced Placement Program offered by the College Board should also refer to Transfer Credit (Advanced Placement (AP)) on page 123 of this *Guide*.

CANADIAN HIGH SCHOOL EQUIVALENCIES*

Province(s)	Required Subject Group 1	Required Subject Group 2	Required Subject Group 3	Required Subject Group 4	Required Subject Group 5
Alberta Nunavut N.W.T.	English 30	Math 30 or 31	Biology 30, Chemistry 30, Physics 30	Social Studies 30 or Modern or Classical Language (MCL) 30	Includes all subject areas at Grade XII level
BC Yukon	English 12	Applications of Math 12 or Prin. of Math 12 or Calculus 12	Biology 12, Physics 12 Chemistry 12, or Geology 12	History 12, Geog 12, or MCL** 12	Includes all subject areas at Grade XII level
Saskatchewan	English 30 A and 30B	Math 30B or Calculus 30	Biology 30, Chemistry 30, Physics 30	Social/Native Studies 30, Geog 30 or MCL** 30	Includes all subject areas at Grade XII level
Manitoba	English 40S	Applied Math 40 or Pre-Calculus 40S	Biology 40S, Chemistry 40S, Physics 40S	History 40S, Western Civil 40S, Geog 40S, or MCL** 40S	Includes all subject areas at Grade XII level
Ontario	English 4U	Math 4U	Biology 4U, Chemistry 4U, Physics 4U	History 4U, Geog 4U, Social Issues 4U or MCL** 4U	Includes all subject areas at Grade XII level
Quebec	English Secondary V	Math Secondary V	Biology, Chemistry, Physics Secondary V	History, Geog, MCL** Secondary V	Includes all subject areas at Secondary V level
New Brunswick	English 122	Math 122 or Adv. Math 120	Biology 122 or 120, Chemistry 122 or 120, Physics 122 or 120	History/World Issues 122 or 120, Geog 120 or MCL** 120	Includes all subject areas at Grade XII level
Nova Scotia	English 12	Math 12 or Pre-Calculus 12	Biology 12, Chemistry 12, Physics 12, or Geology 12	History 12, Geog 12 or MCL** 12	Includes all subject areas at Grade XII level
Newfoundland and Labrador	English 3201	Math 3204 or Adv. Math 3205	Biology 3201, Chemistry 3202, Physics 3204, or Earth Systems 3209	History 3201, World Problems 3204, Geog 3202 or Rels. Studies or MCL** at the 3000 level	Includes all subject areas at Grade XII level
PEI	English 621	Math 621 or Math 611	Biology 621, Chemistry 621, Physics 621	History 621	Includes all subject areas at Grade XII level

***Students must have an overall average of 70 per cent within the 5 Grade 12 subject groups noted above.**

In the event that students do not have one or more of the specific subjects noted above, they should contact the Admissions Office.

** MCL: Modern or Classical Language

➤ **International High School Students**

To be eligible for admission as an international high school student, you must have graduated from a recognized university preparatory program with acceptable senior level courses in the five subject areas, which normally include:

- English
- mathematics
- laboratory science
- social science
- one other subject area

Admission requirements may vary depending on the educational system(s) in place in your country. Please review the admission requirements by country/region found online:

www.mun.ca/regoff/admission/credentials.php

If your country or region is not listed, please contact the Admissions Office for details.

➤ **Concurrent Studies**

Applicants in or about to enter their final year of high school with a superior academic record (i.e., normally an overall average of 85 per cent or above) may apply to enroll in university courses (excluding distance education courses). The applicant for concurrent studies must be enrolled in a high school and completing a slate of courses that meets the course requirements for admission to the university.

Applicants will be required to submit:

- a letter requesting enrolment in a specific course
- an official high school transcript
- a letter from the high school principal or guidance counsellor clearly recommending admission for concurrent studies
- a completed application for admission/re-admission together with the appropriate fee.

An applicant for concurrent studies wishing to enroll in courses at the St. John's campus will be permitted to do so based on the recommendation

of the University Committee on Admissions. Applicants wishing to enroll in courses at the Corner Brook campus will be permitted to do so based on the recommendation of the Special Admissions Committee at Sir Wilfred Grenfell College. Eligibility to enroll is limited to one semester but may be renewed on the recommendation of the relevant committee.

Enrolment for concurrent studies students will normally be limited to three credit hours in a given semester. Fees and deadlines are the same as for regularly admitted students. University credit will be awarded after successful completion of the course(s) and successful completion of the requirements for admission to the university.

➤ **Adult Basic Education Program (ABE)**

Admission Criteria

Applicants shall have completed the Level III Adult Basic Education Certificate (ABE) with the approved combination of 36 credits set down by the Department of Education and successfully completed, with an overall average of not less than 70 per cent, the following courses as outlined below:

Communication Skills: IC 3112 and IC 3321 **or** English 3101A, 3101B, 3101C

Mathematics: One of the following groups:
IM 3115, 3211, 3212, 3213 and 3216 **or**
IM 3218, 3219 and 3221 **or** 2104A, 2104B, 2104C, 3104A, 3104B, 3104C

Science: One of the following patterns:

- **Biology:** IB 3113, 3115, 3211, 3212A/B, 3214, 3316 **or** 2101A, 2101B, 2101C, 3101A, 3101B, 3101C
- **Chemistry:** IH 3111, 3112, 3113, 3114, 3116, 3117, 3118, 3215 **or** 2102A, 2102B, 2102C, 3102A, 3102B, 3102C
- **Geology:** IS 3212
- **Physics:** IP 3111, 3112, 3213, 3215, 3216 **or** 2104A, 2104B, 2104C, 3104A, 3104B, 3104C

Admission Information

Note: Students completing the ABE Certificate should contact the Admissions Office for expected changes to the list of course equivalencies.

➤ **Special Admission**

Where circumstances warrant, applicants not meeting the regulations for admission/re-admission to the university may be admitted to Memorial University of Newfoundland with the approval of the University Committee on Admissions.

Students applying to Grenfell should forward their documents to the Special Admissions Committee.

Applicants must submit:

- a completed application for admission/re-admission including the appropriate fee
- a letter to the committee outlining the justification for requesting special consideration
- a letter from a school principal, guidance counselor, employer or other responsible person substantiating those grounds.

In order to allow sufficient time for reasonable and consistent consideration of special cases, supporting letters must be received at least one week prior to the beginning of the semester to which admission is being sought.

➤ **Mature Students**

An applicant, 21 years of age or older within one month after the beginning of the semester or the session to which admission is being sought, who has not fulfilled the admission criteria outlined in any of the above categories may be admitted to the university with the approval of the University Committee on Admissions.

Applicants for mature student status will be required to submit:

- proof of age
- two letters of reference from persons competent to assess the candidate's ability to proceed with university studies
- a letter from the applicant outlining the grounds for requesting special consideration
- an official high school transcript
- official transcript(s) from post-secondary institution(s), if applicable
- a completed application for admission/re-admission together with the appropriate fee

For further information refer to the Fees and Charges section of the university *Calendar*.

Applicants for mature student status may be required to show through an interview that they possess the potential to proceed with university studies. Since admission as a mature student is not on the grounds of age alone, the University Committee of Admissions reserves the right to refuse admission to any applicant.

➤ **Transfer Students**

Applicants transferring from other recognized universities or colleges who wish to be considered for transfer advanced standing or transfer credit must submit, in addition to the completed Application for Admission:

- an Application for Transfer Credit Evaluation which can be obtained online at www.mun.ca/regoff or from the Office of the Registrar
- official transcript(s) from all post secondary institutions attended
- calendar descriptions and/or outlines of courses claimed for credit. These should be sent directly to Memorial from the institution attended.

To allow sufficient time for evaluation, these documents should be received at least two months before the commencement of the semester to which the applicant is seeking admission.

It is the student's responsibility to provide the pertinent documents, and until they are received, the Office of the Registrar is unable to commence an evaluation or to advise students of their standing at this university.

When transfer credit is awarded for work completed at another institution, only equivalent Memorial University course(s) and credit(s) are recorded on Memorial's transcript. Grades received from other institutions are not recorded nor included in averages.

Applicants who have not received the results of a transfer credit evaluation prior to the assigned registration time for the semester in which they propose to begin studies should contact the Admissions Office for further assistance.

❖ **Transfer Credit**

Applicants wishing to be considered for advanced standing or transfer credit must submit, in addition to the Application for Admission/Re-Admission, an Application for Transfer Credit Evaluation which can be obtained from the Office of the Registrar. Award of credit for courses will be subject to evaluation and recommendation by the appropriate university academic unit and university regulations.

The applicability of all transfer credits, whether specified or unspecified, is subject to appropriate program regulations.

Information regarding course equivalencies can be obtained from the Admissions Office.

Outlined below are the various categories for which transfer credit may be considered.

➤ **Advanced Placement (AP)**

Memorial University may recognize for transfer credit certain courses completed through the Advanced Placement Program offered by the College Board. Award of credit for AP courses will be subject to the achievement of a minimum grade of three in each subject claimed for credit (in certain subjects a minimum grade of four may be required).

Information regarding course equivalencies is available in Appendix "B" of this *Guide*. Further information can be obtained from the Admissions Office.

➤ **Advanced or Higher Levels**

The "Advanced Level" subjects of the General Certificate of Education will generally be accepted for credit to a maximum of 12 credit hours in each subject provided that a minimum grade of D in each subject claimed for credit has been obtained. The "Higher Level" subjects of the Scottish Leaving Certificate will generally be accepted for credit at the first-year level.

➤ **International Baccalaureate Diploma**

Memorial will consider for transfer credit the "Higher Level" subjects and certain "Standard" or "Subsidiary Level" subjects, provided that the subjects claimed for credit are recommended as equivalent to Memorial's courses by the relevant university academic unit(s), and the candidate has achieved a minimum grade of 4 in individual subjects claimed for credit. In certain subjects a minimum grade of 5 may be required. Information regarding course equivalencies is available in Appendix "C". Further information can be obtained from the Admissions Office.

➤ **Member Institutions of the Association of Universities and Colleges of Canada (AUCC)**

All university-level course work completed by transfer students during the first two years of university study taken at universities/colleges that are ordinary members of the Association of Universities and Colleges of Canada (AUCC) will be recognized for transfer credit. In the first instance, the evaluation of such course work for appropriate credit will be conducted by university academic units. In instances where appropriate credit cannot be granted by academic units or where no university academic unit exists at this university for the evaluation of particular transfer credits, the Office of the Registrar will award the appropriate unspecified credits in an unspecified discipline.

Admission Information

Applicants who have completed course work beyond the first two years of university study may be considered for further transfer credit subject to evaluation and recommendation by the appropriate academic unit(s) and university regulations.

➤ **Other Universities, Colleges and Institutes**

Memorial may recognize for transfer credit certain courses offered by the College of the North Atlantic, Marine Institute, and certain other community colleges, technical colleges, institutes and CEGEPs.

❖ **Challenge for Credit**

Memorial recognizes that some students may have achieved competence in certain subject areas through experience gained elsewhere. This experience, which may warrant consideration for academic credit at the undergraduate level, may consist of courses taken at non-university institutions or skills acquired from work or learning outside the university. It should be noted that challenge for credit is not offered for work terms or internships.

Since course challenge is not offered by all academic units nor for all courses within a unit, students are advised to consult with the appropriate academic unit to determine whether or not a particular course is offered for challenge.

Where challenge for credit is offered, it is available under the following conditions:

- Challenge for credit is available only to those students who have applied for admission or who are currently registered at the university.
- Applications to challenge for credit are available at the Office of the Registrar. Completed applications must be submitted to the Office of the Registrar and must receive approval from the head of the academic unit offering the course(s). The academic unit may require documentary material from the student and/or an interview before making its decision whether or not to accept the challenge. The academic unit involved will be responsible for deciding the scheduling and appropriate method of evaluation, which may consist of a variety of possible modes of evaluation including written, practical and oral.
- A student who has applied for transfer credit evaluation may not apply to challenge for credit until the transfer credit evaluation has been completed.
- Memorial University will consider for credit courses that have been granted credit through the Challenge for Credit process by another recognized university or college. Award of credit will be subject to evaluation and recommendation by the appropriate academic unit(s) and university regulations.
- For the purpose of satisfying the regulations for residence requirements (*General Academic Regulations, university Calendar*), a successful challenge for credit shall be considered the equivalent of a transfer credit and shall be recorded on the transcript as a pass (PAS). Challenge grades are not included in averages.

OTHER INFORMATION

Student Finances

As a first-year student entering Memorial you will be faced with certain common expenses, including tuition fees, money for books and supplies, student union fees, transportation and accommodations. In addition, you will need a certain amount of pocket money for incidental expenses. The actual amount of money spent per semester will vary from student to student; much will depend on personal preference and mode of living. If you are depending on provincial government student aid you should make a special effort to budget wisely.

The **approximate costs per semester** as of 2007-08 for **provincial and national students** are listed below.

St. John's campus:

Tuition (15 credit hours @ \$85 per credit hour)	\$ 1,275
Student union fees (includes health and dental plans)	\$ 192.48
Accommodations: Residence (double room) and meals: (19 meals/week) \$ 2,733 (14 meals/week) \$ 2,664 (10 meals/week) \$ 2,544 Burton's Pond Apt (single) \$ 1,479	
Recreation fee	\$ 40
Books, etc.	\$ 500

Corner Brook campus:

Tuition (15 credit hours @ \$85 per credit hour)	\$ 1,275
Student union fees (includes health & dental plans)	\$ 193.50
Dormitory residence (meal plan not available) \$ 1,005 On-campus apartment (single) \$ 1,201	
Books, etc.	\$ 500

The **approximate costs per semester** as of 2007-08 for **international students** are listed below.

St. John's campus:

Tuition (15 credit hours)	\$ 4,400
Student union fees	\$ 46.48
Health Plan (single)	\$ 225.09
Accommodations: Paton College: Double room and meals: (19 meals per week) \$ 2,733 Burton's Pond Apt (single) \$ 1,479	
Recreation fee	\$ 40
Books, etc.	\$ 500

Corner Brook campus:

Tuition (15 credit hours)	\$ 4,400
Student union fees	\$ 60
Health Plan	\$ 225.09
Dormitory residence (meal plan not available) \$ 1,005 On-campus apartment (single) \$ 1,201	
Books, etc.	\$ 500

Student Financial Services

The amount available in assistance varies according to need. The financial resources of parents, personal savings, money from summer jobs, and scholarships are all considered in the assessment of a student's need by Student Financial Services. Further information concerning the Canada-Newfoundland and Labrador Student Loans Program is available from:

Student Financial Services Division
Coughlan College
216 Prince Phillip Drive
St. John's, NL A1C 5S7
studentaid@gov.nl.ca
www.edu.gov.nl.ca/studentaid
Telephone: (709) 729-5849
Fax: (709) 729-2298
Automated Service: 1-888-657-0800

Students from other provinces should consult with their provincial student loan programs.

You should carefully read the information guide that accompanies the student aid application form and make certain that all questions are completed and all pertinent documentation is enclosed. Failure to do this might result in a delay in processing your application. Applications that are correctly completed and received within 10 business days prior to the start of classes (Internet applications) or 20 business days prior to the start of classes (paper applications) will be processed in time for you to receive the assistance if you qualify for a loan and in time to pay your tuition fees.

In some cases personal and family circumstances will change between the time you apply for financial aid and the date you actually receive it. An appeals procedure is available to help you take account of these changes.

You can access your financial information through the Self Service link at **www.mun.ca**.

Scholarships and Awards

Entrance scholarships are awarded to residents of Newfoundland and Labrador, Canadian citizens and landed immigrants graduating from secondary schools within Canada on the basis of their academic performance in high school.

Distinct undergraduate entrance scholarships are available to international students on the basis of academic performance, principals' and teachers' letters of recommendation, and school and community activities.

In general, entering students as described above do not have to apply for entrance scholarships administered by the university. These students are considered automatically, based on their high school performance. There are, in addition, several entrance scholarships for students in special circumstances. Applications must be completed for these awards. A list is available from the Scholarships and Awards office, or from the Student Services office at Grenfell (709) 637-6232. Students from outside the province should contact the scholarships office to determine if they are eligible. Further information is available from:

Scholarships and Awards Office
Smallwood Centre, Room UC-4018
Memorial University of Newfoundland
St. John's, NL A1C 5S7
Telephone: (709) 737-3956
Fax: (709) 737-8615
Hours: Monday-Friday, 9 a.m.-5 p.m.
scholarships@mun.ca
www.mun.ca/scholarships

This office assists students with:

- Undergraduate Scholarships and Awards
- Student Aid other than Newfoundland Student Aid
- Emergency Financial Assistance

Transition from high school

The Academic Advising Centre at the St. John's campus and the Office of the Registrar at Sir Wilfred Grenfell College operate extensive support systems to help you make a smooth transition from high school to university studies.

An important part of this support system is an individual advising session with a faculty member or academic adviser. This advising session takes place in April or May of your Level III year. At this time you can discuss program requirements and course selection. Once you register for your courses you will be assigned one of your instructors as your faculty advisor. Your adviser can help you with any concerns throughout your first year of university.

Registration

Memorial University offers online registration. Instructions are included in the *Undergraduate Registration Procedures* booklet, which will be mailed to you well in advance of the start of registration for the fall semester. As well, the web version of this booklet will be available online at www.mun.ca/regoff by the end of June. Registration for the fall semester begins **July 16**. Please check the current *Calendar* for the start of registration in the winter and spring semesters. You should register for the courses that were recommended during your high school advising session.

If you plan to attend the St. John's campus and did not have an advising session in April or May, or if you have changed your mind about the courses for which you were advised to register, you should contact the Academic Advising Centre at (709) 737-8801 to arrange a telephone or in-person advising session before you register. If you experience problems with the registration system and need assistance, you can also contact the Office of the Registrar, room A-2001, telephone (709) 737-4445.

Students attending Sir Wilfred Grenfell College should call (709) 637-6298 or toll free at 1-866-381-7022 with advising or registration concerns.

An alternative mail-in registration is available for students who do not have access to the web.

Helpful hints for registering

The following hints are intended to assist you with registration:

1. You will be sent a letter that confirms your eligibility to register as well as your program of study. It also states the date and time at which you may begin your registration. You should review the information in your letter to confirm its accuracy.
2. New students who have received early offers of scholarships from Memorial University will register first. For all other new students registration priority is based on a schedule arranged in accordance with the first three letters of your last name.
3. You should register at your assigned date and time or as soon as possible thereafter. This ensures that you will have the best selection of courses.
4. Read this *Guide* and the *Undergraduate Registration Procedures* booklet, which will be mailed to you, **before** attempting to register. It should then be easier for you to follow the instructions during the registration process. As well, you will know how to deal with any problems that may arise.
5. Draft a number of sample timetables **before** attempting to register as you may not get your first choice. You should also create a class schedule that has no clashes, i.e., more than one class or lab at the same time. The system will tell you there is a clash in your schedule, but it will not prevent you from keeping courses that have a timetable clash.
6. You will need a personal identification number (PIN) to register. The PIN for students registering for the first time is birth year and day. For example, a birth year of 1988 and a birth day of the fifth of any month will mean a PIN of 198805. You must then create your own PIN. Do not tell anyone else this number. Every time you access the web

Other Information

or telephone registration systems from then on the new PIN must be used, so do not forget the number you create.

7. If you have difficulty registering for a course check to see if there is a co-requisite or prerequisite for the course. You may need to register for the Math Placement Test before you can successfully add a mathematics course to your schedule. You may also need to add your math course before the system will let you add a physics course.
8. Access the system as many times as necessary. If you are having trouble, end the session, review your material and try again. If no problems arise in the registration process, you should complete your registration in less than 5 minutes.
9. You may use the registration system to change courses after you have completed your initial registration. Be certain before dropping a course because you may not be able to add it to your schedule again should another student register for the available space as soon as it is dropped from your schedule. Also, if you drop a course that is the co-requisite of another course in your schedule, the other course will also be dropped. If you make changes to your registration, you should confirm that the changes have been made by reviewing your schedule. If you have concerns about changing your schedule it is wise to seek advice.
10. You may be able to wait-list a course if it is full or if it is reserved for a particular group of students. If you are on a wait list, check course registrations periodically by accessing the system. You may become registered in the course if space becomes available; however, you will **not** be notified, until you are sent your Enrolment Verification in late August.
11. The registration system will allow you to be registered and wait-listed in a maximum of seven course sections. When you are registered for five courses, all the wait-listed courses you currently hold will become inactive. However, if you drop a course, your wait lists will be reactivated.

It is strongly recommended that you not wait-list for courses when there are open sections of the same course.
12. If you are registering before your final admission status to the university has been determined, your registrations are provisional upon your meeting the admission requirements once your final high school grades become available. If you fail to meet those requirements, your course registrations will automatically be cancelled. You may also need to change courses in particular subjects (e.g., chemistry) depending on your final high school grade in that subject.
13. If you decide that you will not be attending Memorial, you **must** drop the courses for which you have registered. This can be done through the registration system. **Otherwise, you will be academically and financially liable for the courses.** This is so even if you have not paid your fees!
14. Remember to register for orientation!

ST. JOHN'S CAMPUS

ACADEMIC SERVICES

The Academic Advising Centre

Science Building, Room SN-4053

Hours: Monday - Friday,
8:45 a.m. - 4:45 p.m.

Telephone: (709) 737-8801

Fax: (709) 737-2404

advice@mun.ca

www.mun.ca/advice

Academic decisions are probably the most important ones you will make at university. They will not only determine how much you will get from your university education but they will also significantly influence your success as an undergraduate and your success in your career after graduation. The Academic Advising Centre exists primarily to assist you in making those decisions.

Advisers at the centre can provide you with information about courses and programs as well as about the entrance requirements for the various faculties and schools and the general university regulations. They can help you to define your academic goals, to choose courses and programs that will help you attain them and, if you enter the Faculty of Arts or Science, to select a major and a minor. If you have unsatisfactory midterm assessments, the adviser will review your progress with you and suggest strategies for improving your grades. You will be referred to appropriate university divisions and departments if you are having problems that are interfering with your studies. Finally, if there are extenuating circumstances that prevent you from completing the semester, your adviser can help you withdraw from the university without academic prejudice.

Faculty advisers

In the first and second semesters of your first year, one of your instructors will normally be assigned to act as your faculty adviser. You should receive a notice informing you of that instructor before you come to the campus. This person will also notify you in class during the first week of the

semester. In addition, advisers are available on a regular basis in the Academic Advising Centre.

Any student who is without a faculty adviser by the end of the first week of classes should report to the Academic Advising Centre, and an adviser will be assigned.

Co-ordinators

The activities of most academic subjects (called disciplines) for the first year are directed by co-ordinators. You should consult with them whenever you need specific information regarding a particular subject, or whenever you have difficulties with timetables. The Academic Advising Centre will make the names of the co-ordinators and their office numbers available at the beginning of each semester.

Chemistry Help Centre

Chemistry-Physics Building, Room C - 2022

Hours: Monday - Friday, 9 a.m. - 5 p.m.

This is a small help centre for students studying Chemistry 1010 and 1011. A tutor is usually present to answer questions.

Chemistry Resource Room

Chemistry-Physics Building, Room C - 2012

Hours: Monday-Friday, 9 a.m. - 5 p.m.*

Telephone: (709) 737-8085

Fax: (709) 737-3702

*Also open on some evenings and Saturdays before tests and final exams.

The Resource Room offers students access to computers and reference materials that address topics in first-year and second-year chemistry courses. An instructional assistant is on hand for questions.

Computer Labs

- T12 Building, Room CS-1019
- Chemistry-Physics Building, Rooms C-2003/4
- The Commons, Main Floor, Queen Elizabeth II Library

Hours: Students can check this link for the weekday schedule:

www.mun.ca/cc/pcg/labschedule.html

klayman@mun.ca

Students have access to all three of these labs. CS-1019 is booked throughout the week for computer science classes, with free hours scheduled for general access. There are 60 computers available, with laser printing access. The CS accounts for this lab also apply for the lab in C-2003/4. C-2004 is the general access lab, with 55 terminals and laser printing access. C-2003 is the teaching lab, and when no class is scheduled it offers general access as well. C-2003 has 42 terminals and laser printing access.

All labs use the same CS login/password procedure and software. Students will have space on their "home drive" (network drive) and any files stored there can be accessed from any of the labs mentioned above.

A student can start a paper in CS-1019, access it later in C-2003/4 and print it off in either lab. The software packages include MS Word, Excel, Internet Explorer and an e-mail account.

The Commons computer area also uses the labnet login procedure. Accounts function with all areas. Also, residence computer labs will use labnet. Laser printing is available in both areas.

For more information on the Commons, visit www.thecommons.mun.ca.

Education computer labs are also a part of the labnet solution but access is restricted to education students only.

Computer Science Help Centre

S.J. Carew Building, Room EN-2031C

Hours: check www.cs.mun.ca

Telephone: 737-6144

The Department of Computer Science Help Centre is located in room EN-2031C of the S.J. Carew Building (Engineering Building). During academic terms, our instructional assistants hold scheduled hours to give help with 1000- and 2000-level laboratory courses and student assistants (senior computer science majors) are available who can help with non-laboratory courses at the 2000, 3000 and 4000 levels. All staff will review general concepts and address any difficulties associated with computer science course work.

Economics Help Centre

Arts Building, A-3047

Hours: Posted each term

Telephone: No phone - drop-in only

This help centre provides assistance with textbook problems or course study guides, clarification of textbook readings or lecture materials, and study assignments when approved by course instructor. Help is currently available only for Economics 2010 and 2020.

French Help Centre

Science Building, Room SN-4035

Hours: Posted each term (subject to funding)

Telephone: 709-737-7636 (departmental office)

This centre is staffed by senior students. Hours of operation are announced each semester in all first-year classes. They are also posted in the French corridor on the fourth floor of the Science Building and on the door of SN-4035. You can also check with the departmental office (SN-4023) to find the time that best suits you. The Help Centre staff are available to help first and second-year students with specific difficulties in the study of French. On your first visit to the Help Centre, please bring some samples of corrected exercises or tests so that the staff can see for themselves where you may be having difficulty. Help Centre staff are not authorized to correct work intended to be passed in and marked by instructors.

German Help Centre

Science Building, Room SN-3062

Hours: Students can check this link for the schedule:

www.mun.ca/german/German/HelpCentre/

Telephone: (709)737-8831

(Departmental Office)

The German Help Centre is open to all students enrolled in German language courses. The times are announced each term in all classes and posted on the departmental web.

The centre is staffed by senior students. Tutoring is done on an individual basis and no appointment is necessary. In addition to help with written assignments and tests, the centre also offers conversation practice.

Language Laboratories (Multimedia Language Centre, Audio Lab)

Multimedia Language Centre (MLC), SN-4022:

Monday - Thursday, 9 a.m. - 7 p.m.

Friday, 9 a.m. - 5 p.m.

Audio Lab, SN-4030:

Monday - Thursday, 9 a.m. - 7 p.m.

Friday, 9 a.m. - 4 p.m.

Telephone: (709) 737-8585

(Dr. Karin Thomeier)

karint@mun.ca

General Enquiries: (709) 737-3008

This is one of the most advanced facilities at any Canadian university, offering high-tech interactive practice facilities to students of French, German, Spanish, Italian, Russian, classics and linguistics. The Multimedia Language Centre provides interactive CDs, satellite TV and a variety of online exercises to reinforce what you learn in class. Similar programs are available to students for whom English is a second language.

The MLC software, both commercially- and faculty-produced, and other language-related audiovisual material (including videotapes and second language television shows) help make your learning easier, enjoyable and memorable. In-

house produced grammar drills that are designed specifically for first-year language courses are very useful in preparing you for your final written exam. Try the *Moodle and Hot Potatoes* exercises!

The new Multimedia Language Centre (renovated summer 2005) complements our traditional language lab. Two doors down from the MLC, the Audio Lab assists you in improving your speaking and oral comprehension skills.

The Language Labs also offer conversation classes to help you with fluency.

Library

*Hours:

Monday - Thursday 8 a.m. - 11:45 p.m.

Friday 8 a.m. - 5:45 p.m.

Saturday 10 a.m. - 5:45 p.m.

Sunday 12 p.m. - 9:45 p.m.

Telephone: (709) 737-7423

www.library.mun.ca

*Hours of operation are extended before and during the examination period and reduced between semesters and during spring semester.

The Queen Elizabeth II Library is the main library on the St. John's campus and is both an intellectual and social cornerstone of the university. With five floors and space for 2,000 people, you will have no problem finding a good spot for quiet study, a good meeting place, or a good librarian to provide you with research help!

With the largest research collection in the Atlantic region and a dedicated team of librarians and library assistants at your service, you will find yourself learning how to access, evaluate and utilize a vast world of knowledge. In addition to having a comprehensive collection of books and periodicals available for your use, we offer an ever-expanding collection of Internet-based tools and resources that you can access from home, or by visiting the Commons, on the main floor of the QEII Library.

The Commons is not only the key place on campus to do research - it is also a place where you can write up and print assignments,

St. John's Campus

correspond by e-mail, work on web-based distance courses, and much, much more. Friendly staff are also on hand to help you with all your research, writing and technical needs.

The library system on campus also includes:

- Health Sciences Library
Health Sciences Centre
- Dr. C. R. Barrett Library
Marine Institute
- Curriculum Materials Centre
Education Building
- Music Resource Centre
Music Building
- Centre for Newfoundland Studies
QEII Library, 3rd floor

All libraries and resource centres have strong collections, extensive hours, and expert assistance to help you find the information you need for your studies at Memorial.

Mathematics Help Centre

Henrietta Harvey Building, Room HH-3015
Hours: Monday - Thursday, 10 a.m. - 4 p.m.
Friday 9 a.m. - 1 p.m.
Telephone: No phone - drop-in only

The Mathematics Help Centre is open on a drop-in basis for students taking Mathematics 1000, 1050, 1051 and 1090. Students are welcome to drop in with questions on lecture topics or sample problems. Tutoring is done on an individual basis and no appointment is necessary. Text and electronic resources are available.

Mathematics Learning Centre

Coughlan College, Room 1006
Hours: Monday - Friday, 9 a.m. - 4 p.m.
Telephone: (709) 737-3308
Fax: (709) 737-2351

The Mathematics Learning Centre offers mathematics skills programs. These programs are in place to ease the transition to post-secondary courses requiring some mathematical expertise. Students enrolled in programs at the centre have their strengths and weaknesses in mathematics identified first, and then personal programs of

study are designed to suit their backgrounds and their goals.

Students enrol in Mathematics 102F and will be transferred to 103F or 104F at the end of the term of their completion of the program. This may take as many as three semesters, depending upon the student's entry level. These courses are non-credit, but the program is counted as part of a student's course load for tuition fees determination and for student loans.

If you are unsure whether the skills program will be useful to you, you may contact any of the Learning Centre staff for advice.

Physics Help Centre

Chemistry-Physics Building, Room C-3071
Hours: Monday - Friday, 9 a.m. - 5 p.m.
Telephone: (709) 737-8899
Fax: (709) 737-8739

This centre is designed specifically for first-year physics students, and is staffed by professors, assistants and physics majors. The staff schedule is posted at the beginning of each semester so students can check when their professor is scheduled to work.

Writing Centre

- Science Building, Room SN-2053
 - The Commons, Queen Elizabeth II Library
- Hours: Posted each term.
Telephone: (709) 737-3168 Virginia Ryan
Fax: (709) 737-4000
www.mun.ca/writingcentre/

The Writing Centre, a free university-wide service managed by the Faculty of Arts, is staffed by tutors who will guide students through stages of the writing process. Whether you need help getting started, editing, or creating a bibliography, Writing Centre staff are happy to help. For students completing distance education courses tutoring is available online. For additional information, please contact the centre.

STUDENT SERVICES

Student Affairs and Services

Centre for Career Development and Experiential Learning

Career Planning Centre

Smallwood Centre, Room UC-4002

Hours: Monday - Friday, 9 a.m. - 5 p.m.

Telephone: (709) 737-2033

Fax: (709) 737-2437

cdel@mun.ca

www.mun.ca/cdel

The Career Planning Centre is a drop-in area where students may come informally without appointment to peruse various kinds of career and educational information.

Information available in the centre can broaden the student's awareness of career alternatives and can provide detailed information. Other information includes: general career planning materials; job hunting, resumé writing, and interviewing materials; descriptions of qualifications needed and entrance requirements for various careers; information on different programs of study available in Canada, the United States, and Commonwealth countries; and a complete collection of Canadian university and college calendars. Career information assistants are available at all times to help students locate appropriate materials.

Centre for Career Development

Smallwood Centre, Room UC-4002

Hours: Monday - Friday, 9 a.m. - 5 p.m.

Telephone: (709) 737-2033

Fax: (709) 737-2437

cdel@mun.ca

www.mun.ca/cdel

The Centre for Career Development (CCD) is the university resource for assisting students with all their part-time, summer and permanent employment needs. The CCD provides guidance in job search methods, career development and employment transition. Employment opportunities at the local, provincial, national and

international levels are posted on their website through Workopolis Campus. The CCD offers guidance in the areas of resumé writing, networking, career portfolios, interview skills, and much more. The CCD co-ordinates graduate recruitment activities for local, national and international employers visiting campus, and facilitates on-campus employment through co-ordination of a part-time career development program entitled MUCEP, which provides over 1,500 employment opportunities for students in over 50 campus departments each year. The Memorial component of the Student Work and Service Program (SWASP) is also administered through the CCD, as are a number of services directed to students in the Faculties of Arts and Science.

Co-operative Education Services Centre

Smallwood Centre, Room UC-4000

Hours: Monday - Friday, 9 a.m. - 5 p.m.

Telephone: (709) 737-2419

Fax: (709) 737-8960

cesc@mun.ca

www.mun.ca/student/careerexploration/coop

The Co-operative Education Services Centre (CESC) is responsible for providing a range of services common to all co-operative education programs at Memorial. This includes developing and maintaining business and government participation in the co-op programs, assisting the job placement process for more than 500 students per semester, and encouraging the development of professional and scholarly skills pertinent to co-operative education.

Counselling Centre

Smallwood Centre, Room UC-5000

Hours: Monday - Friday, 9 a.m. - 5 p.m.

Telephone: (709) 737-8874

Fax: (709) 737-3011

counselc@mun.ca

www.mun.ca/counselling

Most services are free of charge to students and appointments can be made in person, by telephone, e-mail, or by visiting the website. The primary function of the Counselling Centre is to help students release, develop or direct their personal capabilities. Through individualized

St. John's Campus

personal counselling and a wide range of group programs, professional faculty at the centre - with the assistance of supervised interns and practicum students from the various counsellor-training programs on campus - help students to develop their own unique resources.

Learning Enhancement Programs

The centre offers a number of short courses and structured workshops in which students learn to apply general strategies for handling university-level work more effectively. Specifically, these programs provide training in organizational techniques to comprehend study materials and, later, to recall the materials for essays, class presentation and tests. Programs routinely offered include Speed Reading and Comprehension, Organizing Ideas for Term Papers and Essays, Oral Communication, Time Management, and Test Anxiety.

Individual and Group Counselling

In addition to individualized personal counselling, the centre offers specialized group and training programs. For example, the intellectual and personal growth of many students is blocked by such phenomena as fear of tests, fear of asserting oneself and other debilitating concerns. Such difficulties may be dealt with on an individual or a group basis depending on the student's wishes.

Psycho-educational Testing

A psycho-educational assessment program is offered on a fee-for-service basis for students seeking academic accommodations.

Campus Ministries

Smallwood Centre, Room UC-5001

Hours: Monday - Friday, 9 a.m. - 5 p.m.

Anglican: (709) 737-2550

Pentecostal: (709) 737-4374

Roman Catholic: (709) 737-8589

Salvation Army: (709) 737-4375

United: (709) 737-2534

Fax: (709) 737-3011

www.mun.ca/counselling/campmin/

The Campus Ministries comprises chaplains representing the Anglican/United, Salvation Army, Pentecostal and Roman Catholic denominations who provide resources, guidance

and support for members of the university community. The chaplaincy also seeks to bring a faith dimension to contemporary issues such as peace, justice, technology and science. The chaplains offer individual pastoral counselling as well as joint programs including weekly workshops, discussion groups, social activities and worship opportunities. Schedules of events are available from the chaplains or from the website.

Glenn Roy Blundon Centre

Smallwood Centre, Room 4007

Hours: Monday - Friday, 9 a.m. - 5 p. m. (evenings and weekends as required)

Telephone: (709) 737-2156

TTY: (709) 737-4763

blundon@mun.ca

www.mun.ca/blundon

The office for students with disabilities at Memorial University's St. John's campus is dedicated to the memory of student Glenn Roy Blundon. The Blundon Centre, as it is known, provides and co-ordinates services and activities that enable students with disabilities to maximize their educational potential and to increase awareness of inclusive values among all members of the university community. The Centre assists students with disabilities by facilitating access to information, services, and campus facilities. Support is also provided to students with documented temporary disabilities (e.g., a student with a broken leg). The Centre carries out its mission in collaboration with faculty, staff, and students at Memorial University and off-campus agencies.

Services include:

- Campus orientation and intake interview
- Academic accommodations for tests and exams, including the Math Placement Test, the Bridging Program, and Distance Education courses
- Sign language interpretation
- Wheelchair desks
- Note-taking assistance
- Assistance accessing funding sources (e.g., Canada Study Grant - Canada Student Loans Program)
- Liaison to university and community services

- Consultation for faculty, staff, and students regarding accommodation issues
- Disability awareness activities for faculty, staff and students
- Keys for wheelchair-accessible elevators and lifts
- On-campus (wheelchair-accessible) transportation
- Access to parking accommodations
- Scooter/wheelchair storage and recharging facility
- Campus physical accessibility tours
- Access to TTYs and telephones with amplification
- Adaptive technology (e.g., ZoomText, JAWS, Kurzweil 1000 & 3000, and closed-circuit televisions). This technology is also available at The Commons (Queen Elizabeth II Library).
- Academic skills workshops; learning strategies; self-advocacy support; and individual, group, and career counselling is available at the University Counselling Centre.
- Psycho-educational assessments for learning disabilities, attention difficulties, and anxiety are available at the University Counselling Centre on a fee-for-service basis.
- Exercise equipment for wheelchair users is available at The Works - Field House recreation complex.
- A number of rooms in residence are reserved for students with disabilities. For further information about housing accommodations contact:
Telephone: (709) 737-4335
housing@mun.ca
www.munhousing.ca

The Blundon Centre also:

- Monitors physical accessibility issues and facilitates campus improvements
- Develops policies and procedures for students with disabilities
- Conducts research on higher education and disability

Academic Accommodation Policy

The “Academic Accommodation Policy for Students with Disabilities” is available at: www.mun.ca/blundon.

Wellness Education

Smallwood Centre, Room UC-5000
Hours: Monday - Friday, 9 a.m. - 5 p.m.
Telephone: (709) 737-8874
Fax: (709) 737-3011

www.mun.ca/counselling/student_wellness/

Wellness Education offers health promotion programs and materials designed to promote the understanding of high-risk behaviours and disease-related factors; it is also a strong advocate for healthy living. Wellness Education hosts student volunteers through its peer helper program, which promotes wellness on campus. The peer helpers function as para-professionals, providing information on health-related issues.

Wellness Education operates mainly as an outreach education unit, co-ordinating wellness seminars such as Healthy Eating and Relaxation and Stress Management for students, staff and faculty.

Student Success Programs

Answers

Smallwood Centre, Room UC-3005
Hours: Monday - Friday, 9 a.m. – 4:45 p.m.
Telephone: (709) 737-7461
Fax: (709) 737-2347

answers@mun.ca

www.mun.ca/answers

The **Answers** office provides:

- A first point-of-contact for student questions about life at Memorial
- Orientation and leadership programs
- Campus cards
- Locker rentals
- Distribution of student loans (Canada and Newfoundland), Canada study grants and Millennium scholarships
- Bookings for emergency student loan appointments

Orientation

Orientation is one of the biggest events held at Memorial each year; it is a two-day event for all new students.

The purpose of Orientation is to assist students with their academic and social adjustment to university life. There are several informative, interactive, and high-energy events designed to help students get to know each other and the campus.

The first couple of days on campus are crucial to an easy transition into university life. Come to Orientation and make the most of what Memorial has to offer. For more information visit: www.mun.ca/answers/orientation.

Parents' Orientation

Memorial offers sessions to parents/guardians of new students to inform them of the common issues facing new students, therefore enabling them to be a more informed support.

Each session has a mini-campus tour plus a variety of speakers such as university administrators, student government representatives, parents of past students who have already been through this experience, and student speakers who describe the first-year experience. For further information visit www.mun.ca/answers/orientation.

International Student Advising Office

Corte Real, Room 1000A (Burton's Pond Apartments)
Hours: Monday - Friday, 9 a.m. - 5 p.m.
Telephone: (709) 737-8895
Fax: (709) 737-6102
isa@mun.ca
www.mun.ca/isa

The International Student Advising office is pleased to provide programs and services to international students. New international students receive the *International Survival Guide*, which highlights essential information for adjusting to our culture, and also explains the services we provide such as international health insurance, immigration advice, housing tips, and much more.

We also maintain a list-serve to keep international students informed of social events (the *International Film Club* and Friday afternoon "coffee breaks", for example) as well as updates to immigration policy and other important information. If you would like to join the list-serve, please send us an e-mail and we will sign you up. Please feel free to drop by our office anytime - whether you need assistance, or just come to say hello - we are always happy to see you. Happy studying!

Native Liaison Office

Smallwood Centre, Rooms UC-4003, 4005
Telephone: (709) 737-3495
Fax: (709) 737-7601
teresab@mun.ca

The Native Liaison Office is an education counselling service for aboriginal students attending post-secondary institutions in the St. John's area. The office is affiliated with, and is a member of, the team of Student Affairs and Services professionals at Memorial University. The primary function of the office is to provide education counselling to students pertinent to their education programs and plans. The native liaison officer is entrusted to counsel and advise students on matters relating to: admission requirements to specific institutions; adaptation to an academic and urban environment; and educational information that may enhance the educational progress of current and prospective aboriginal students.

Scholarships and Awards

Scholarships and Awards Office
Smallwood Centre, Room UC-4018
Telephone: (709) 737-3956
Fax: (709) 737-8615
scholarships@mun.ca

For further information on scholarships and awards see page 12.

Housing, Food and Conference Services

Hatcher House, Room 309

Hours: Monday - Friday, 9 a.m. - 5 p.m.

Telephone: (709) 737-7590

Fax: (709) 737-3520

housing@mun.ca

www.munhousing.ca

Paton College and Burton's Pond Apartments offers accommodations on campus for first year students at Memorial University's St. John's campus.

The 10 residences and 4 apartment buildings are just minutes away from most campus facilities including classrooms, the library, and the recreational centre. When the weather turns foul, Memorial University has an underground tunnel system that is connected to Paton College and easily accessible to Burton's Pond residents within minutes. All the conveniences of living on campus mean not having to worry about the light bill or rent.

In Paton College residence fees include an "All You Care to Eat" meal plan. In Burton's Pond, each apartment has a fully equipped kitchen so that residents can prepare their own meals. A grocery store is only minutes away. However, if residents of Burton's Pond wish, they can also purchase a Meal Plan to the Memorial University's Main Dining Hall.

Residents of both Paton College and Burton's Pond also have access to wireless high-speed Internet service that is accessible throughout the campus.

The Residence Life office provides numerous programs and supports, including free tutoring, a host of academically related information sessions, and plenty of leadership opportunities to both Paton College and Burton's Pond residents.

Opportunities to participate in recreational and social activities to ensure a healthy balance to each day and night are also abundant when you live on campus.

Experience on campus living in either Paton College or Burton's Pond and you will find that it

is more than just a place to stay - it's a home away from home and the friendships you make here will last a lifetime.

Application forms for Paton College and Burton's Pond are available from:

www.munhousing.ca or from:

Housing, Food and Conference Services
309 Hatcher House
Memorial University of Newfoundland
St. John's, NL
A1B 3P7

Student Health Service

Smallwood Centre, Room UC-4023

Hours: Monday - Friday, 8:30 a.m. - 5 p.m.

Telephone: (709)737-7597

Fax: (709) 737-2087

www.mun.ca/student/health

The Student Health Service operates a medical clinic on the St. John's campus. The doctors and nurses have many years of experience in providing comprehensive health care to students. If you have a significant illness or disability, please bring a copy of your medical records with you when you come to the St. John's campus.

University Bookstore

Smallwood Centre, Room UC-2006

Hours: Monday - Friday, 8:30 a.m. - 4:45 p.m.

Telephone: (709) 737-7440

Fax: (709) 737-2405

www.bookstore.mun.ca

This includes sale of:

- new and used texts
- manuals, stationary and supplies
- trade and reference books
- university crested clothing and backpacks
- greeting cards and other items

SIR WILFRED GRENFELL COLLEGE

Sir Wilfred Grenfell College (Grenfell), Memorial's campus on the west coast of Newfoundland, is committed to offering a liberal arts and science education. Grenfell's small, spectacularly beautiful campus offers a personalized undergraduate education in a realm of interdisciplinary experiences. The transition into university life is filled with challenges; however, Grenfell graduates will tell you that there is no better place for students who are looking for an intimate, personalized and interactive learning environment. Small class sizes ensure that individual attention is the norm and there is ample opportunity to get to know the faculty in and out of the classroom.

Four-year degree programs in arts, science, business administration nursing and fine arts may be completed at Grenfell. The Bachelor of Arts degree is available in environmental studies, English, historical studies, humanities, psychology, social/cultural studies and tourism studies, and the Bachelor of Arts (honours) may be completed in psychology. The Bachelor of Science and Bachelor of Science (honours) are offered in environmental science, general science and psychology. The bachelor of business administration offers specializations in contemporary business studies, small business and entrepreneurship, and regional economic development. The university's four-year bachelor of nursing degree is offered in conjunction with Western Regional School of Nursing in Corner Brook. Bachelor of fine arts degrees are conferred in visual arts and theatre. Grenfell recently piloted the bachelor of education (primary/elementary) fast-track option. In addition, many degree programs offered at the St. John's campus can be started at Grenfell.

There is only one application form for Memorial University of Newfoundland, so it is important to indicate the campus of your choice on your application for admission. Please refer to page 3 of this *Guide* for further admission requirements.

Facilities

Grenfell has spectacular facilities on an impressive 185-acre site, including the Forest Centre, with its tree-lined atrium. The Fine Arts building houses a 200-seat black box theatre and avant-garde gallery. The newly renovated arts and science building includes high-tech classrooms, a 25-metre pool, gym, bookstore and faculty and administrative offices. The Ferriss Hodgett Library contains a collection of more than 125,000 books, journals, slides and videos, and provides access to a variety of e-journals and other electronic resources, plus access to all the resources offered by the QEII Library system on the St. John's campus. The Student Centre offers students a place to call their own, to dine, study or spend time with classmates and professors. Grenfell's residence and chalet-style apartments provide comfortable and convenient on-campus housing to more than 400 students.

ACADEMIC SERVICES

Academic Advising: As a first-year, first-semester student, you will be assigned a faculty adviser. Your adviser can help you make informed decisions about course selection and degree programs. Advisers can explain university regulations to you and, if you need special help in any area, will direct you to the appropriate people or service. Making contact with your adviser is an important way for you to feel connected to the university; it is beneficial to see your adviser regularly to ensure your courses are on track. The senior academic adviser co-ordinates faculty advising and is available to all students who seek academic information. The senior academic adviser is located in the Office of the Registrar, AS277 and can be contacted at info@swgc.ca or toll-free 1-866-381-7022.

Any student who does not have an academic adviser by the end of the first week of classes should contact the Office of the Registrar, AS277, (709) 637-6298.

Computer Services:

You will have access to modern computer labs in the Arts and Science Building and the Library and Computing Building. Wireless access is available, giving students the freedom to access the Internet from anywhere on campus. During your first week on campus you will be given computer access accounts and e-mail accounts. For more information, please visit:

www.swgc.ca/computing/.

Ferriss Hodgett Library:

The Ferriss Hodgett Library is a multimedia learning resources and information centre, with a collection of over 125,000 volumes, including books, audio-visual journals and microfilms. The on-line catalogue provides users with access to the collections of other Memorial libraries which are quickly available on interlibrary loan.

An information Commons Student Computer area is available for e-mail, Internet and library research, word processing and other software applications. The library has individual seating for 205 users, as well as group study rooms. Help in using the library and in finding information is always available. For more information about the college library services and facilities students can drop by, e-mail, chat (MSN) or view the web page at www.library.mun.ca/swgc.

French Lab: Grenfell is equipped with a state of the art computerized language lab, using the system CAN 8. For further information, please visit: www.swgc.ca/french/.

Learning Centre:

There are many academic support programs and services at Grenfell, many of which are offered through the award-winning Learning Centre, a one stop shop for academic support at Grenfell. The centre offers free help in math and writing as well as peer tutoring in most disciplines. The Learning Centre also offers the Supplemental Instruction Program (SI). SI is an academic assistance program where student leaders organize and facilitate study sessions in high risk courses. These sessions are focussed on course content and study

skills strategies. Staff in the Learning Centre also offer many seminars to facilitate students' academic success. Those include time management, note-taking and study skills strategies as well as review sessions and specialized seminars in math and writing.

The Career Planning Centre is also part of Grenfell's Learning Centre. The Career Planning Centre maintains a supply of current Canadian university and college calendars and information. Staff also offer résumé writing workshops and seminars in career planning and job searching. For further information on services of the Learning Centre, please visit:

www.swgc.ca/lcentre/.

STUDENT SERVICES

Bookstore:

The Sir Wilfred Grenfell College Bookstore is located on the main floor of the Arts and Science building. When buying textbooks it is usually a good idea to wait until after your first classes to be sure that you are buying the correct books for your course section.

In addition to new and used books, textbooks and course supplies, the bookstore also carries a large selection of art supplies, frames, stationery, greeting cards, toiletries to meet your daily needs, crested items and clothing, as well as a multitude of other items for your convenience and pleasure. Check out our general book selection for your own leisure reading and gifts, and our reference section to aid your studies. For further information, visit:

www.swgc.ca/bookstore/index.html.

Campus Ministry:

Campus Ministry supports student's personal, social, religious and spiritual formation. The ministry office promotes an environment where students can discuss basic issues of identity and meaning. Chaplains representing the major religious affiliations of Grenfell students are available on campus on a part-time basis. For further information visit:

www.swgc.ca/student/ministry.html.

Campus Tours:

The best way to discover more about campus life at Grenfell is to arrange a tour. Campus tours are available for individuals as well as groups. To arrange a tour, please call the Office of the Registrar at (709) 637-6298, toll-free at 1-866-381-7022, or e-mail us at info@swgc.ca.

Counselling:

Students often run into situations that affect their academic performance or sense of well-being. Grenfell's counsellors meet with students on an individual and confidential basis. Appointments can be made by calling (709) 637-6211 or (709) 637-6234 or through e-mail at jbarber@swgc.ca or pwilson@swgc.ca.

Grenfell College Student Union (GCSU):

The Grenfell College Student Union is the students' voice in all issues that affect the student population. It organizes activities and services to enhance the educational, cultural, environmental, political and social conditions of its members and offers the student body many services including a comprehensive health plan, optional dental plan, clubs and societies and special events. For more information visit: www.swgc.ca/gcsu.

Health and Wellness:

Through a partnership with the Western Regional School of Nursing, a Wellness Centre operates at Grenfell on a part-time basis during the fall and winter semesters. The centre is staffed by faculty and senior students from the School of Nursing. The role of the centre is to enhance education and

awareness of various lifestyle, health, and well-being issues relevant to students at university. Staff members are also available to meet with students on an individual basis. The Centre is located in AS110. Some of the services available include:

- health assessment
- health teaching (nutrition, lifestyle)
- referral to other health professionals (physician, counsellor, dietitian, communicable disease nurse)
- screening (pap smears, testicular exam, BMI)
- health promotion campaigns (smoking, STD's, nutrition, drugs/alcohol)

A medical clinic also operates on a part-time basis during the fall and winter semesters. For further information, visit:

www.swgc.ca/recreation.

International Student Services:

The International Student Coordinator offers a number of programs and services for international students. New international students will receive an arrival guide, which will assist with their transition to Canada, and specifically Newfoundland. A buddy program, airport pick up, workshops, etc., are also offered. Social events and activities are also planned on a regular basis to allow international students the opportunity to meet other students, get involved in the community, and experience Newfoundland culture. For more information e-mail: smpeddle@swgc.ca.

National Student Exchange Program:

Grenfell participates in the National Student Exchange (NSE) program, which allows students to pay Grenfell tuition while studying for a semester at one of the NSE's member universities in the United States and Canada. Grenfell students have chosen to experience university life in such places as Oregon, Mexico, West Virginia, Florida, New Mexico, and Hawaii, just to name a few. For more information visit:

www.swgc.ca/regoff/nse.html

Orientation:

The first week at university can be confusing and intimidating for new students. Student Services and the Grenfell College Student Union co-ordinate an orientation program each September to help you adjust to university life, become familiar with the campus, have fun and make new friends. The program includes tours, concerts, scavenger hunts, BBQs and seminars on how to succeed at university. For further information, visit:

www.swgc.ca/orientation/.

Parents' Orientation:

Student Services hosts a Parents' Orientation which includes campus tours, as well as various presentations and seminars. This program provides parents and guardians of first year students with useful information on services and supports available at Grenfell. Parents' Orientation enables parents to be helpful and supportive in students' transition from high school to university.

Recreation:

Grenfell offers a distinctive program of recreation and wellness activities that contribute to the well being and personal and social development of students. The college has a 25 metre pool, a double gymnasium and an outdoor multi-use court. Students at Grenfell have the opportunity to participate in a variety of different recreation programs such as intramural sports, water aerobics, step aerobics, yoga and "learn to" programs that include activities like downhill skiing, kayaking and swimming. Students also have the opportunity to play on competitive sport teams which compete in various leagues and tournaments. For further information visit:

www.swgc.ca/recreation/.

Scholarships, Awards and Financial Services:

Student Affairs and Services provides information about scholarships and awards and financial assistance available through the Canada Student Loan Program. Most Memorial University scholarships are tenable at either campus of the university; however, a few major scholarships are specially designed for students attending Grenfell. For further information, visit:

www.swgc.ca/student/money.html.

Special Needs:

Grenfell aspires to be a barrier-free institution and gives equal opportunity to all students. If you need assistance or special arrangements because of a disability, please contact the co-ordinator of the Learning Centre at (709) 637-6268 or e-mail:

lpayne@swgc.ca.

Student Employment:

A number of part-time job opportunities exist around campus in various departments, i.e., library, Community Education and College Relations, GCSU, etc. As well, the Memorial University Career Experience Program (MUCEP) enables students to work 40 or 80 hours per semester and provides valuable work experience for future employment. Job listings are posted at the start of each semester. For further information, visit:

www.swgc.ca/student/money.html.

Student Housing:

About one-third of Grenfell students live on campus. Students can choose from two housing options: residence halls or chalet apartments. In the residence, all rooms are single with every two rooms forming a suite, where two students share a fridge and bathroom. Each floor has a kitchen/lounge where students are encouraged to prepare meals and enjoy each other's company. There is also a small food court on campus where students can purchase meals. The residence is equipped with a laundry facility, computer/study room and every residence bedroom is wired for the Internet and digital telephone service. There are Residence Assistants (RA's) on each floor who are responsible for students on that floor. The RA's, together with the Residence Council and Student Housing staff, develop numerous social and educational programs and activities throughout the year.

Our chalet apartments, which are usually reserved for students in their second year and beyond, allow four students to live together in a more independent lifestyle. Each apartment has a living room, kitchen and one-and-a-half baths. Like the residence, however, each student has his or her own room. Individual phones and Internet ports are also provided.

The student housing application is separate from the application for admission to Memorial and students are encouraged to apply early.

Grenfell College offers a room guarantee to all new students who apply for residence by March 1 and who have been accepted or provisionally accepted to the university.

Note: Some other conditions apply. Students are encouraged to check the Housing website or contact the Housing office.

Student Housing also provides assistance and services for students seeking off-campus accommodations in the Corner Brook area.

For more detailed information or to complete an on-line application visit:

www.swgc.ca/swgc-res.

IMPORTANT CONTACT INFORMATION:

www.swgc.ca
info@swgc.ca

Office of the Registrar

(709) 637-6298
1-866-381-7022

Student Housing

(709) 637-6266

Academic Advising

(709) 637-6206

Bursar's Office

(709) 637-6286

Student Services

(709) 637-6232

PART II

DEGREE PROGRAMS AND INFORMATION ABOUT MAJORS

Introduction

Choosing courses and programs

Moving from a high school program with relatively few choices into university with its many options means that course selection is very important. Some subjects are unfamiliar because they are not offered in high school, while other subjects familiar to you may be quite different in content and approach.

While many students entering university have decided on a specific program or major, some have not. You should realize that a definite decision concerning your eventual program of study may not have to be made at the beginning of the first year. However, you are well-advised to seek information about academic programs before making a final decision. Assistance in deciding program choice and choosing appropriate courses is available at the Academic Advising Centre.

Guidelines for choosing the appropriate first-year courses for particular programs can be found in this part of the *Guide*. If you are undecided as to whether you should do arts or science, choose a combination of courses that enables you to sample both areas and also fulfill the first-year requirements of the arts and science degree regulations.

Finally you should be aware that each degree program has certain requirements which must be satisfied before the degree is awarded. It is to your advantage to meet those requirements early in your university career. Doing less than a full course load of 15 credit hours a semester may delay your progress through your intended program.

A **full-time student** is one who is registered in at least nine credit hours or the equivalent in any semester and/or session.

A **part-time student** is one who is registered for less than nine credit hours or the equivalent in any semester and/or session.

Degree Programs

The following pages outline degree programs available at Memorial University:

- arts
- business administration
- commerce
- education
- engineering
- fine arts
- international business administration
- kinesiology
- medicine
- music
- nursing
- pharmacy
- physical education
- recreation
- science
- social work

Definition of terms in this section

An **academic year** is the period from Sept. 1 to Aug. 31 and each academic year is divided into three semesters (terms) as follows:

Fall semester (September to December)

Winter semester (January to April)

Spring semester (May to August)

The completion of an academic year normally refers to attendance at university for two **semesters** (generally September to April) and/or the successful completion of 30 credit hours. The minimum number of credit hours for the general BA degree, for example, is 120. Therefore, this degree is considered to be a four-year program of studies. Students in some degree programs, however, can decrease the time required to complete a degree by attending all three semesters in one or more academic years.

Introduction

A **session** is a period of approximately seven weeks within the spring semester. The first half of the spring semester is called **intersession**; the second half is called **summer** session.

A **credit hour** is the measure used to reflect the weight of a course towards the fulfillment of a degree, diploma or certificate. Most courses have a credit value of three credit hours.

Credit is given for courses that a student successfully completes. If the last character of a course is F (e.g., Math 102F), then the course does not carry credit for a degree but is intended to remedy a specific academic weakness.

Program means a series of courses, the completion of which, if other requirements are met, qualifies a student for a degree, diploma or certificate.

A **major** (for the degrees BA and B.Sc.) is the subject selected as the one in which the student normally specializes during the course of degree studies.

A **minor** is the subject in which a student also specializes but to a lesser degree than the major.

An **elective** is any course that is not compulsory under the requirements for a specific program.

A **semester course** is a unit of work in a particular subject extending over one semester, such as Chemistry 1010.

A **prerequisite** course is one that must be successfully completed before you begin the course for which the prerequisite is required (for example, Psychology 1000 is a prerequisite for Psychology 1001).

A **corequisite** course is a course which may be taken concurrently with or successfully completed prior to the course for which it is required (for example, Mathematics 1000 is a corequisite for Physics 1050).

A **transcript** is the complete and unabridged report of a student's academic record.

Honours degrees

Programs are offered leading to honours degrees of bachelor of arts, bachelor of business administration, bachelor of commerce, international bachelor of business administration, bachelor of kinesiology, bachelor of music, bachelor of physical education, bachelor of recreation and bachelor of science. An honours degree offers greater specialization in a given field of knowledge than a general degree, and/or requires higher-than-average academic achievement. Attainment of this degree will be of great advantage to all students planning more advanced study in their chosen field. In many cases, an honours degree is a prerequisite for admission to a graduate program. Any student who might wish to proceed to an honours degree should attempt to maintain higher-than-average grades from the beginning of his or her university career.

More complete information on honours degrees can be found in the university *Calendar* (www.mun.ca).

ARTS

www.mun.ca/arts

General Information

The study of the humanities and social sciences will enrich your life and open the way to a rewarding career. Over and over, graduates of the Faculty of Arts will tell you that their time at university gave them not only marketable skills but also intangible benefits that they use and appreciate every day. These advantages are crucial in today's job-market. On top of easily defined technical skills, employers often need and look for more valuable assets. Flexibility, creativity, analytical skills, and effective communication are among the traits they value most highly. The study of the arts develops all these qualities. And unlike merely technical skills, they do not grow obsolete. Clear thinking and powers of communication have no expiry date.

An arts degree could lead to an entry-level position in fields such as journalism, community development, market research or retail management. It could be your passport to further study in professional programs such as medicine, business, education, nursing and social work, or in academic disciplines ranging from archaeology to women's studies.

Memorial offers a variety of arts degree programs at the St. John's campus and at Grenfell. The general and honours bachelor of arts (BA) degrees require the completion of 120 credit hours.

For information about the Grenfell BA see the Grenfell section, page 70 of this *Guide*.

A full description of the BA degree offered in St. John's is available in the booklet *A Student's Guide to Memorial's BA Degree*, and on the web at www.mun.ca/arts.

Bachelor of Arts

Degree Requirements

All candidates for the St. John's BA degree must include certain core requirements in their program. These core requirements are:

1. Six credit hours in English at the 1000 level.
2. Six credit hours in a single second language other than English (satisfied by French, German, Greek, Hebrew, Innu-aimun (Montagnais), Inuktitut, Italian, Latin, Mandarin Chinese, Mi'kmaq, Russian, Sanskrit, Spanish and other languages such as Japanese and Irish Gaelic which may be offered from time to time).

This requirement may also be met by demonstration of equivalent competency in a second language, through, for example:

- success in the French immersion courses Français 3202 (or 3212)
 - the completion of an Advanced Placement language examination with an acceptable grade
 - the completion of a high school curriculum in a second language
3. Six credit hours in numeracy/science (satisfied by biochemistry, biology, chemistry, computer science, earth sciences, Economics 2010, Economics 2020, engineering, environmental science, geography laboratory courses, mathematics and statistics, physics, psychology, Science 1000, 1150, 1151, 3000, 3001).

Please note that certain majors and minors within the Faculty of Arts do require mathematics:

- **Computer Science** majors are required to complete Mathematics 1000 and 1001 (or 1090, 1000 and 1001). Computer Science minors are required to complete Computer

Arts

Science 1710. Students registered in Computer Science 1710 must be registered in, or have already completed, Mathematics 1000

- **Economics** majors and minors are required to complete Mathematics 1000 (or 1090 and 1000).
- Students can complete a BA degree with a major or minor in **geography** without courses in mathematics. However, the completion of Mathematics 1000 will allow for greater choice in the selection of geography courses.
- **Mathematics** majors are required to complete Mathematics 1000 and 1001 (or 1090, 1000 and 1001). Mathematics 1050 and 1051 can lead to a minor in mathematics.
- **Psychology** majors and minors are required to complete Mathematics 1000 or two courses chosen from Mathematics 1090, 1050 and 1051.

4. (a) Twelve credit hours in at least two humanities subjects (satisfied by classics, English, French and Spanish, German and Russian, history, philosophy, religious studies, Law and Society 2000, Medieval Studies 2000, Women's Studies 2000).

(b) Twelve credit hours in at least two social science subjects (satisfied by anthropology/archaeology, economics, Environmental Studies 1000, Environmental Studies 2000, folklore, geography, history, linguistics, political science, sociology, Law and Society 2000, Women's Studies 2000).

Some of the courses in paragraphs 4(a) and (b) may be used to satisfy major and minor program requirements.

5. Six credit hours in research/writing. These may be counted towards the major and minor programs, and may also satisfy 6 credit hours from 4(a) and (b) above. It is recommended that these courses be completed within the first 60 credit hours in your program.

Priority registration for research/writing courses will be given to students who have indicated Arts as their intended faculty on the form used for application to Memorial University or to students admitted to any B.Mus. program.

Note: To satisfy the minimum core requirements, students shall take no more than nine credit hours in courses from any one discipline.

Sample Program

Semester I	Semester II
Course in subject of major or another core requirement	Course in subject of major or another core requirement
Numeracy/science course	Numeracy/science course
Second Language	Second Language
Research/writing course	Research/writing course
English 1080	English 1101, 1102, 1103 or 1110

Subject Areas

Majors

The Faculty of Arts at the St. John's campus offers the BA with majors in:

anthropology	linguistics
Canadian Studies	medieval studies
classics	philosophy
computer science	political science
drama and music*	psychology***
economics**	pure mathematics
English	statistics
folklore	religious studies
French	Russian language
geography	and literature
German language	sociology
and literature	sociology /
history	anthropology
	Spanish

Minors

Bachelor of arts students may also complete minors in all the major subject areas listed above except Canadian studies and drama and music, as well as in:

- aboriginal studies
- business administration
- european studies
- German studies
- law and society
- music and culture*
- music history*
- Newfoundland studies
- Russian studies
- women's studies
- Faculty of Science subject areas

*A more detailed description of the **drama and music major**, the **music and culture minor** and the **music history minor** can be found in the School of Music section on page 56 of this *Guide*.

A **co-operative education option is available to majors in **economics**. To be eligible for admission to Term 1 of the **major in economics (co-operative) program**, you must have successfully completed a minimum of 30 credit hours with an overall average of at least 65 per cent as follows:

- six credit hours in English. It is recommended that students complete English 1110 as one of these English courses.
- Mathematics 1000 (B.Sc. students must have completed Mathematics 1001.)
- Economics 2010 and 2020
- at least 15 credit hours chosen from courses in the faculties of Arts and Science

Admission is competitive and selective. The primary criterion used in reaching decisions on applications for admission is overall academic achievement.

You may enter Term 1 only in the fall semester. The deadline for applications for admission is **March 1**. Late applications may be considered. Please see the department head or the coordinator of the Co-operative Program in Economics for more information.

The Economics Co-operative Education Option (ECEO) is available to full-time economics majors (BA and B.Sc.) only. This option provides an excellent mutual opportunity for students and employers. Qualified students will obtain rewarding employment experience in fields related to economics for several months of continuous duration. Students will learn valuable practical skills in an employment situation during their course of study. Furthermore, paid employment will help to defray the cost of their education. There are three work terms in the program.

*****Admission to the major or minor in psychology is competitive and selective.** For more information on admission to the **major in psychology**, please see page 66 of this *Guide*.

Honours Degree

The bachelor of arts (honours) is offered in all of the major subject areas listed except Canadian studies, drama and music, medieval studies, Russian language and literature and Spanish. These subjects may be included in some joint honours programs.

Joint Bachelor of Arts / Bachelor of Commerce (Co-operative)

The joint degrees of bachelor of arts and bachelor of commerce (co-op) can be completed in five years, provided appropriate planning is undertaken. For more information, please see page 39 of this *Guide*.

BUSINESS

www.business.mun.ca

The Faculty of Business Administration offers three undergraduate degree programs in business. The **bachelor of commerce (co-operative) (B.Comm.(co-op))** is a five-year program that alternates regular full-time academic semesters with work terms. The **bachelor of business administration (BBA)** is a flexible four-year program that does not have a work-term requirement. New in 2006, the **international bachelor of business administration (iBBA)** is a four-year program that combines business and cross-cultural studies with a required semester of studies overseas. The faculty also offers joint degree options to students admitted to the B.Comm.(co-op) program including a bachelor of commerce (co-op)/bachelor of arts degree program, and a bachelor of commerce (co-op)/bachelor of science in computer science degree program.

Degree Programs

Bachelor of Commerce (Co-operative)

The B.Comm.(co-op) is awarded upon meeting the requirements of the commerce program. It takes five years of full-time study to complete. This program is designed to prepare students for the business world.

The co-operative component of the program involves alternating classroom study with periods of full-time employment. The three work terms, which may be in industry, government and other organizations and give students the opportunity to apply classroom learning and develop practical skills for today's business environment.

In the first year of the B.Comm.(co-op) program, Terms A/B, students must complete 30 credit hours in required courses. In Terms 1 through 7, students must complete 60 credit hours of required courses and 51 credit hours of electives, of which some must be business courses and others must be non-business courses. Through the

electives, students have the opportunity to specialize in one of the following concentrations:

- accounting
- finance
- human resources and labour relations
- information systems
- management science
- marketing
- small business/entrepreneurship

A student enrolled in the B.Comm.(co-op) program may, using the non-business electives required for graduation from the program, complete a minor in areas such as arts, science or music, or one offered at Grenfell.

Bachelor of Business Administration

The BBA is a general business 120 credit hour program with a flexible structure and no work term or work experience requirements. It features a blend of business and non-business courses, with an option to do a minor in another area such as arts, science, music or from Grenfell. Also, students who choose the BBA program are able to use Memorial's distance education offerings to complete their program.

Admission, Promotion and Continuance Requirements

The admission requirements for the B.Comm.(co-op) and the BBA programs are the same. Students are admitted directly from high school into Terms A/B of the B.Comm. (co-op) or BBA programs subject to final acceptance to the university and admissibility into Math 1000 or 1090. Students may apply for direct entry to a business program by indicating this in the appropriate place on their General Application for Admission to Memorial University.

Students are normally accepted into a program in the fall semester.

The 30 credit hours to be completed in Terms A/B include:

- six credit hours in English (It is strongly recommended that these include English 1110.)
- Mathematics 1000
- Economics 2010 and 2020
- Business 1000
- twelve credit hours in **non-business** courses, at least nine credit hours of which must be chosen from the faculties of Arts and/or Science and/or Music

Requirements for promotion to Term 1 of the B.Comm. (co-op) or continuation to second year of the BBA are similar and require the successful completion of the 30 credit hours prescribed, with an overall average on those 30 credit hours of at least 65 per cent.

Sample Programs

Sample: Program A

Term A	Term B
Mathematics 1000	Business 1000
Economics 2010	Economics 2020
English 1080	English 1110 (or equivalent)
Two electives*	Two electives*

Sample: Program B

Term A	Term B
Mathematics 1090	Mathematics 1000
Economics 2010	Economics 2020
Business 1000	English 1110 (or equivalent)
English 1080	Two electives*
Elective*	

*12 credit hours in non-business electives must include nine credit hours from the faculties of Arts and/or Science and/or the School of Music. **Computer Science 1600 cannot be used as part of these 12 credit hours.**

Further information can be obtained at: www.business.mun.ca.

International Bachelor of Business Administration

The international bachelor of business administration (iBBA) was introduced in response to the worldwide demand for a global business professional.

The process of globalization has been associated with ongoing growth in international business activities. Increasingly, activities of the modern organization take place overseas, within different business and cultural environments.

As a result, there is an urgent need for a new breed of business professional who can perform successfully, across national borders and within different cultural and regulatory environments. The iBBA has been specifically designed to give students the skills to play this role.

The iBBA is a challenging 120 credit hour program that contains four key components:

- a) Core training in fundamental business skills.
- b) Additional “international business” courses dealing with the different types of international business activity, the different types of market where this activity takes place and the different types of behaviour met in these markets.
- c) Non-business cross-cultural skills that provide both a global and regional (eg., Asian, European or Latin-American) perspective. This would normally include a foreign language but should also contain study in areas such as international relations, economics or any other area offering international or cross-cultural perspectives.
- d) An approved program of study overseas, spent in the student’s chosen region of interest. A range of study locations will be available in Europe, the Asia-Pacific and Latin-America.

Admission, Promotion and Continuance Requirements

Admission to the iBBA is competitive and selective. To be eligible for admission to the iBBA an applicant must have successfully completed the 30 credit hours of the Pre-iBBA program (see below) with an average on those credit hours of 65 per cent or better.

Students who are commencing study at Memorial directly from high school and who wish to proceed to the iBBA should therefore enrol in the Pre-iBBA program.

The Pre-iBBA program

The 30 credit hours to be completed in the Pre-iBBA program are as follows:

- a) six credit hours in English (It is strongly recommended these include English 1110.)
- b) Mathematics 1000
- c) Economics 2010 and 2020.
- d) Business 1000
- e) Political Science 2200 (*Introduction to International Politics*)
- f) nine credit hours in **non-business** courses, chosen from the faculties of Arts and/or Science and/or Music. Six of these credit hours would normally be a foreign language.

Pre-iBBA Sample Program

Term 1	Term 2
Mathematics 1000	Business 1000
Economics 2010	Economics 2020
English 1080	English 1110 (or equivalent)
Foreign Language*	Foreign Language*
Political Science 2200	Elective*

*For the iBBA degree students must choose non-business electives so that their degree as a whole has a coherent global and regional content. To achieve this, students need to nominate a particular global region (eg., Asia, Europe, Latin-America) as a focus area within their program.

This choice of region will affect both the languages and other electives chosen, as well the choice of location and content of the study abroad program undertaken later in the program.

For this reason languages will normally be chosen from the following:

- | | |
|---------|----------|
| French | Chinese |
| German | Japanese |
| Italian | Spanish |

Further information can be obtained at: www.business.mun.ca.

Joint Degrees of Bachelor of Arts and Bachelor of Commerce (Co-operative)

General Information

The joint degrees of bachelor of arts and bachelor of commerce (co-operative) (BA/B.Comm. (co-op)) can be completed in five years, provided appropriate planning is undertaken. Some of the normal degree requirements have been relaxed by each faculty for students who wish to complete both programs in a minimum of 150 credit hours and to graduate with both degrees at the same convocation.

In order to fit the requirements of both degrees within a five-year period, students are advised to follow the suggested first-year program as indicated in the sample programs.

Admission and Program Planning

Any student who is admitted into the bachelor of commerce (co-op) program may simultaneously complete the requirements for a bachelor of arts program (see B.Comm.(co-op) admission) on page 36 of this *Guide*.

In the first year, Terms A/B, students must successfully complete 30 credit hours comprised of the following: 6 credit hours in English at the 1000 level, Mathematics 1000 (or 1090 and 1000), Economics 2010 and 2020, Business 1000, and electives. A student must achieve an overall average of 65 per cent on these 30 credit hours to be promoted to Term 1.

In order to fit the requirements of both degrees within a five-year period, it is strongly recommended that these elective courses are selected with specific requirements for the BA in mind. Research/writing courses, second language courses and courses in the intended major should round out your first-year program. The schedule of courses and work terms required for the B.Comm.(co-op) are set out in the Plan of Operation in the university *Calendar*. For the BA, students are recommended to discuss their programs before the end of their first year with the head of department of their major, to make sure that required courses will be available within

the constraints of course scheduling and prerequisites.

Sample Programs

Sample: Program A

Term A	Term B
Mathematics 1000	Business 1000
Economics 2020	Economics 2010
Second language ¹	Second language ¹
A course in department of intended major	A course in department of intended major
English 1080	English 1110 ² (or equivalent)

Sample: Program B

Term A	Term B
Mathematics 1090	Mathematics 1000
Economics 2010	Economics 2020
Business 1000	A course in department of intended major
Second language ¹	Second language ¹
English 1080	English 1110 ² (or equivalent)

Notes:

1. The bachelor of arts degree requires six credit hours in a single second language.
2. It is strongly recommended that students complete English 1110 (Critical Reading and Writing II (Context, Substance, Style)), as one of the two required English courses.

Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Science in Computer Science

General Information

The joint degrees of bachelor of commerce (co-op) and bachelor of science in computer science can be completed in five years, provided appropriate planning is undertaken.

Any student who is admitted into the bachelor of commerce (co-op) (B.Comm.(co-op)) program may simultaneously complete the requirements for a bachelor of science (B.Sc.) in computer science degree. Some of the regulations for the B.Comm. (co-op) program have been relaxed to enable completion of the degrees. These adjustments to the normal curriculum will only be permitted for students who are graduating with the B.Comm. (co-op) degree and the B.Sc. degree at the same convocation. In order to meet all the requirements of both degree programs at the same time, students who are completing the joint degrees are strongly advised to follow the B.Comm.(co-op) curriculum (completed jointly with the B.Sc. in computer science) as outlined in the *Calendar*.

Admission and Promotion Requirements

To be eligible for promotion to Term 1 of the B.Comm. (co-op) program, an applicant must have successfully completed 30 credit hours in Terms A/B with an overall average of at least 65 per cent on the courses comprising those credit hours. For the joint degree, the 30 credit hours must comprise:

- a) six credit hours in English (It is strongly recommended that these include English 1110)
- b) six credit hours in mathematics, which must include Mathematics 1000
- c) Economics 2010 and 2020
- d) Business 1000
- e) Computer Science 1710

- f) Computer Science 2710 and 2742 or six credit hours in science electives.

Sample: Program A

Term A	Term B
Computer Science 1710*	Computer Science 2710** or science elective
Mathematics 1000	Computer Science 2742** or science elective
Economics 2010	Mathematics 1001
Business 1000	Economics 2020
English 1080	English 1110 (or equivalent)

*Computer Science 1710 has a prerequisite of Mathematics 1000 (which can be taken concurrently), or Mathematics 1090 (or equivalent).

**Computer Science 1710 is a prerequisite for Computer Science 2710 and 2742.

Sample: Program B

Term A	Term B
Mathematics 1090	Computer Science 1710
Economics 2010	Mathematics 1000
Business 1000	Economics 2020
Science elective*	Science elective
English 1080	English 1110 (or equivalent)

*May be Computer Science 1700 for students without a background in programming.

EDUCATION

www.mun.ca/educ

General Information

The Faculty of Education is responsible for the preparation of teachers. The faculty provides the professional component, while other faculties and schools, in co-operation with the Faculty of Education, provide other components of teacher preparation programs.

Of the various programs offered by the Faculty of Education, the following basic programs are of concern to first-year students.

Bachelor of Education (Primary/Elementary)

The bachelor of education (primary/ elementary) degree program is designed to prepare teachers for kindergarten through grade six. The program is offered as both a first degree and a second degree.

➤ Bachelor of Education (Primary/Elementary) as a First Degree

This is a 150 credit hour program which includes a 15 credit hour teaching internship. This program is offered in two delivery formats:

- Bachelor of Education (Primary/ Elementary) as a First Degree Integrated Delivery Program
- Bachelor of Education (Primary/ Elementary) as a First Degree Consecutive Delivery Program

Applications for both integrated and consecutive delivery are considered together. Consideration will be given to the courses for which a student is registered at the time of assessment of applications.

Admission Requirements

To be considered for admission, students must have successfully completed 60 credit hours as outlined below with either a cumulative average of at least 65 per cent or an average of at least 65 per cent on the last attempted 30 credit hours. Students applying to the consecutive delivery option must have completed a total of 78 credit hours including a completed focus area.

The 60 credit hours are:

- a) twelve credit hours in English including at least six credit hours at the 2000 level or above
- b) six credit hours in mathematics or three credit hours in calculus
- c) six credit hours in psychology
- d) Science 1150 and 1151; or nine credit hours in science (three credit hours each to be chosen from biochemistry, biology, chemistry, earth science, environmental science, or physics); or a focus area in science
- e) six credit hours chosen in any combination from anthropology, economics, folklore, geography, history, linguistics, political science, religious studies, sociology
- f) six credit hours in French (recommended) or six credit hours in a single language other than English, or demonstration of equivalent competency in a second language (ESL courses cannot be used to satisfy this requirement)
- g) fifteen credit hours as part of a focus area
- h) additional credit hours from subject areas **other than education**

Admission to the Faculty of Education is competitive. Applications must be submitted to the Office of the Registrar by **Dec. 1** in any year.

Education

Consideration will be given to the courses for which students are registered at the time of application. In assessing applications to the program, consideration will be given to the student's overall academic performance, personal statement, references and résumé as outlined on the application to the faculty.

Note: Applicants for the integrated delivery program who will have completed all requirements for admission by the end of the spring semester of the year that admission is being sought will be considered as time and resources permit.

Focus Areas

Students must select one focus area from the subjects listed below:

English	folklore
French	geography
history	linguistics
mathematics	music
physical education	religious studies
science	visual art

Sample Program

Note: This is a sample program only; there are other possibilities.

Semester I	Semester II
Science 1150	Science 1151
Mathematics 1050	Mathematics 1051
A course from a focus area	A course from a focus area
Three credit hours in French or Psychology 1000	Three credit hours in French or Psychology 1001
English 1080	English 1101, 1102, 1103, or 1110

➤ Bachelor of Education (Primary/Elementary) as a Second Degree

The bachelor of education (primary/ elementary) as a second degree is a 72 credit hour program. It is intended for candidates who have already completed an appropriate bachelor's degree.

Admission Requirements

To be considered for admission to the bachelor of education (primary/elementary) as a second degree program, individuals must have:

- a) been awarded a bachelor's degree, or approved (prior to program startup) for the award of a bachelor's degree from a university recognized by Memorial University of Newfoundland;
- b) achieved a cumulative average of at least 65 per cent, or an average of at least 65 per cent on the last attempted 30 credit hours; and
- c) completed a minimum of:
 - six credit hours in English (ESL courses cannot be used to satisfy this requirement)
 - six credit hours in mathematics or 3 credit hours in Calculus
 - six credit hours in psychology
 - Science 1150 and 1151 or six credit hours in science in any combination to be chosen from: (biochemistry, biology, chemistry, earth science, environmental science or physics) (It is recommended that students have nine credit hours in science.)

- six credit hours in any combination to be chosen from: anthropology, economics, folklore, geography, history, linguistics, political science, religious studies and sociology;
- six credit hours in French (recommended), or six credit hours in a single language other than English, or demonstration of equivalent competency in a second language
- all courses required for a focus area as listed in the *Calendar*, or the completion of a major or minor within the initial Bachelor's degree program in a subject area classified as a focus area.

In assessing applications to the bachelor of education (primary/elementary) as a second degree program, consideration will be given to the following:

- overall academic performance
- personal statement, references and résumé as outlined on the application to the Faculty.

Bachelor of Music Education Conjoint with Bachelor of Music

General Information

This is a five-year conjoint degree program consisting of a bachelor of music and a bachelor of music education offered in co-operation with the School of Music. The program is designed for the preparation of school music teachers and other professionals in positions related to music education.

Admission Requirements

To be considered for admission, students must have successfully completed a minimum of 45 credit hours with either a cumulative average of at least 65 per cent or an average of at least 65 per cent on their last attempted 30 credit hours.

Applicants must be in good standing with the School of Music.

Completed courses must include:

- six credit hours in English and/or research/writing courses (Faculty of Arts)
- at least three credit hours from the following: Music 3221, 3222, 3231, 3232, 3233, 3241, 3242, 3261, 3281, 3282
- at least 12 credit hours in music in addition to the three credit hours in clause (b) above

Applications for admission are considered once a year normally in the fall semester. Deadline for submission of applications is **Jan. 15** in any year. Consideration will be given to the winter semester courses for which students are registered at the time of application.

Applications for admission refer to the education component of the conjoint degree program only. At the time of application, students must have been formally admitted to, and be in clear standing with, the School of Music.

For appropriate first-semester courses see the School of Music section beginning on page 54 of this *Guide*.

Note: The bachelor of music education is also available as a second degree following completion of the bachelor of music.

Bachelor of Education (Intermediate/ Secondary)

General Information

This is a second degree program designed to prepare teachers for grade seven through grade twelve. Following completion of a first degree, students attend full-time and graduate in one calendar year. The program is designed to provide students with an early field experience, a sequenced set of courses prior to a full semester internship and a range of courses after the internship designed so that students can reflect on their school experiences and make further connections between theory and practice.

Education

Admission Requirements

To be considered for admission individuals must have:

- a) been awarded a bachelor's degree from a university recognized by Memorial University;
- b) completed 36 credit hours in a subject listed under academic disciplines below (business studies, Newfoundland studies and religious studies cannot be used to satisfy the 36-credit hour requirement);
- c) completed 24 credit hours in a subject listed under academic disciplines below, but different from that in (b); and
- d) achieved an overall average of at least 65 per cent in each of the sets of courses chosen to meet (b) and (c) above.

Applications for admission are considered once a year and for the fall semester only. The deadline for submission of faculty applications to the Office of the Registrar is **Jan. 15** in any year. Consideration will be given to the courses for which students are registered at the time of application.

Note: Applicants who will have completed all requirements for admission by the end of the spring semester of the year that admission is being sought will be considered as time and resources permit.

Academic Disciplines

Academic disciplines are listed below. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed academic disciplines will be acceptable.

biochemistry	geography
biology	history
business studies*	mathematics (pure, applied, statistics)
Canadian studies	Newfoundland studies*
chemistry	physical education
earth sciences	physics
economics	political science
English	religious studies*
environmental science	theatre arts
French	visual arts
general science	

*These subjects are only available as a second discipline. Business studies requires at least a minor in business administration.

For further information on the complement of courses suitable for these disciplines, please see the university *Calendar* or website: www.mun.ca/educ.

Candidates who are registered in the final semester of their first bachelor's degree program during the winter semester must have satisfied the academic requirements set out in paragraphs a - d above upon completion of their first degree program. Applicants completing degrees from a university other than Memorial must submit an official transcript denoting the award of their first degree. These applicants must supply transcripts indicating winter semester grades no later than **June 15**.

Sample Program

For sample programs of first-year courses, please see the appropriate section for the bachelor's degree being completed in the first instance, i.e., bachelor of arts, bachelor of fine arts, bachelor of science or bachelor of physical education.

Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education

General Information

This is a program designed to prepare both intermediate/secondary and technology education teachers. Students in the program will complete a number of courses that address the development of basic skills and competencies in a variety of technological areas and how to apply them through design and problem solving processes in a school classroom/laboratory setting. All students attend full-time and should graduate in four semesters.

This conjoint program is designed to provide students with an early field experience, a sequenced set of courses prior to a full semester internship and a range of courses after the internship designed so that students can reflect on

their school experiences and make further connections between theory and practice.

Admission Requirements:

To be considered for admission individuals must have:

- a) been awarded a bachelor's degree from a university recognized by Memorial University;
- b) completed 36 credit hours in a subject listed under academic disciplines below;
- c) achieved an overall average of at least 65 per cent in the set of courses chosen to meet (b) above.

Applications for admission are considered once a year and for the spring semester only. The deadline for submission of faculty applications to the Office of the Registrar is **December 1** in any year. Consideration will be given to the courses for which students are registered at the time of application.

Academic Disciplines

Academic Disciplines are deemed to be the disciplines on the following list. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed Academic Disciplines will be acceptable.

biochemistry	geography
biology	history
Canadian studies	mathematics (pure, applied, statistics)
chemistry	physical education
earth sciences	physics
economics	political science
English	theatre arts
environmental science	visual arts
French	
general science	

Sample Program

For sample programs of first-year courses, please see the appropriate section for the bachelor's degree being completed in the first instance, i.e., bachelor of arts, bachelor of fine arts, bachelor of science or bachelor of physical education.

Bachelor of Education (Native and Northern)

General Information

This is a teacher education program designed for native students who intend to pursue a teaching career in native communities. Programs are available at the primary/ elementary and secondary levels.

Admissions Requirements

To be considered for admissions individuals must have:

- completed a minimum of 15 credit hours with an average of at least 55 per cent in those courses and be in clear standing;
- completed an application form for admission to the university and an application form for admission to the Faculty of Education Native and Northern program.

Sample Program

For sample programs of first year courses please consult with the co-ordinator of Native and Northern Education programs by calling (709) 737-4704.

Further information on education programs can be obtained from www.mun.ca/educ.

ENGINEERING AND APPLIED SCIENCE

www.engr.mun.ca

Bachelor of Engineering and Applied Science

The bachelor of engineering degree at Memorial University of Newfoundland is a Co-operative Program in which regular full-time academic study is supplemented by four-month periods of full-time work in positions related to the student's future career. The bachelor of engineering degree is available in the following five programs: civil engineering, computer engineering, electrical engineering, mechanical engineering, and ocean and naval architectural engineering. Students in each program may also choose to pursue offshore oil and gas engineering options in the last three terms of the program. These programs are fully accredited by the Canadian Engineering Accreditation Board (CEAB) of the Canadian Council of Professional Engineers (CCPE) to June 2011.

As of September 2008, the engineering undergraduate degree program will be modified to better reflect the changing needs of students. The new program incorporates changes that increase the flexibility of the programs for our students and reduce the overall length of time required to complete an engineering degree at Memorial. The normal mode of entry into the program will be direct entry from high school and the program will normally be completed in eight academic semesters, rather than the ten academic semesters currently required. The program will have a mandatory co-op format that will require students to complete four work terms.

Transition program for students entering first year in fall 2007

For students entering Memorial in fall 2007, there will be a two-year transition program that will allow them to participate in the new engineering program in Academic Term 3 in fall 2009. Students may apply for direct entry from high school into a transitional first year engineering program in the 2007-08 academic year if they meet the minimum requirements for direct admission from high school. Such admission is on a competitive basis for a limited number of seats. Students intending to apply to the engineering program that do not meet the minimum admission requirements this year will be designated as **pre-engineering**.

Transition Programs

Students accepted to the Faculty in fall, 2007 and who wish to be promoted to Academic Term 3 in Fall 2009 must follow the course of study in the charts below during the 2007-08 and 2008-09 academic years.

First-Year Transition Program (2007-08 Academic Year)

Students must pass all 10 courses listed in the chart for Transition Terms A and B during the 2007-08 academic year, with an average grade of at least 65 per cent, and must achieve grades of at least 60 per cent in each of Mathematics 1001, Mathematics 2050, Physics 1051 and Chemistry 1050, in order to remain in the engineering program.

First-Year Transition Program for Students at the St. John's Campus

Transition Term A	Transition Term B
Math 1000	Math 1001
Chemistry 1050	Math 2050
Physics 1050 ¹	Physics 1051
English 1080 or English 1020	2420 Structured Programming
1313 Engineering Mechanics I	Complementary Studies (from List A) ²

First-Year Transition Program for Students at the SWGC Campus

Transition Term A	Transition Term B
Math 1000	Math 1001
Chemistry 1050	Math 2050
Physics 1050 ¹	Physics 1051
English 1000	Free Elective ³
Complementary Studies (From List A) ²	Complementary Studies (From List B) ²

Second-Year Transition Program (2008-09 Academic Year)

Students must pass all 10 courses listed in the charts for Transition Terms 1 and 2 during the 2008-09 academic year, with an average grade of at least 60 per cent, in order to gain promotion to Academic Term 3 in Fall 2009.

Second-Year Transition Program for Students from the St. John's Campus

Transition Term 1	Transition Term 2
Math 2000	Math 3260
Statistics 2510	4102 Engineering Economics
Complementary Studies (From List B) ²	3101 Engineering Workplace
Complementary Studies ⁴	Free Elective ³
1030 Engineering Graphics & Design	1040 Mechanisms & Electric Circuits

Second-Year Transition Program for Students from the SWGC Campus

Transition Term 1	Transition Term 2
Math 2000	Math 3260
Statistics 2510	4102 Engineering Economics
1010 Engineering Statics	3101 Engineering Workplace
Complementary Studies ⁴	1020 Introduction To Programming
1030 Engineering Graphics & Design	1040 Mechanisms & Electric Circuits

Notes:

1. Students who complete Physics 1020 (instead of Physics 1050) must achieve grade of at least 65 per cent in order to be eligible for admission to Physics 1051.
2. See Appendix "F" for the list of Complementary Studies Electives. The list is also available at www.engr.mun.ca under Undergraduate/Complementary Studies.
3. A science course with a laboratory component is recommended.
4. Must be one of 6101 – Assessment of Technology, Philosophy 2801, Sociology 2120, or Women's Studies 4107.

**Admission Modes
(2007-08 Academic Year)**

A student may enter the engineering program in one of the following ways:

A. Direct admission from high school

High school students must meet the requirements outlined in items **1** and **2** below in order to be considered eligible for admission to Transition Term A.

1. **Either** earned credits in Math 1000 through:
 - International Baccalaureate (High Level with a score of 4 or higher), or
 - Advanced Placement (Calculus AB or BC with a standing of 3 or higher)

Or eligibility to register for Math 1000 as demonstrated through one of the following:

 - Successful completion of Math 3205 or equivalent (Advanced Math) in high school with an MPT score of at least 75,
 - Successful completion of Math 3204 or equivalent (Academic Math) in high school with MPT score of at least 85,
 - Completion of International Baccalaureate Math (Standard Level) with a score of 4 or higher
2. **Either** earned credits in Chemistry 1050 through:
 - International Baccalaureate (High Level with a score of 6 or higher), or
 - Advanced Placement Chemistry (with a grade of 5 or higher)

Or eligibility to register for Chemistry 1050 as demonstrated through:

- Eligibility to register for Math 1000, and
- Completion of Chemistry 3202 or equivalent from high school with a grade of 75 per cent or higher.

Physics 2204 or 3204 or equivalent from high school are recommended but not required.

B. Fast Track

Exceptionally well prepared students may apply for direct entry into second-year engineering (Term 1) from high school (September of each year). Direct admission into Term 1 is normally based upon a student being admitted to the university, having an admission average of at least 80 per cent and having advanced placement equivalent to university credit in one of the following categories:

Category I: Mathematics, Physics and Chemistry

Category II: Mathematics and Physics

Category III*: Mathematics and Chemistry

Category IV*: Mathematics

*Students admitted under this category will be required to complete self-study material on “electricity and magnetism” and pass a competency test on the material prior to admission to Term 1. (Details of the self-study material and test can be found under *Undergraduate/Fast Track Admission* at: www.engr.mun.ca.)

C. Bridging Programs

The Faculty of Engineering and Applied Science has bridging programs that allow certain diploma graduates to enter the engineering program with advanced standing. In each case, the bridging program consists of two academic terms: fall and winter, followed by entry into Academic Term 4 of the appropriate discipline.

For further information please consult the university *Calendar* at:

www.mun.ca/regoff/calendar.

D. Advanced Standing

Students are occasionally admitted to later terms in Engineering from within the university or from other institutions. Such entry is normally based on a detailed analysis of the student's record and is handled on a case-by-case basis. Such students should contact the Office of the Associate Dean (Undergraduate Studies).

Applications to Engineering

Applications to Term 1 in fall 2007 must have been submitted to the Office of the Registrar no later than **March 1, 2007**.

A complete application package includes:

- an application to Engineering
- an application to the university (for those who have not attended Memorial University of Newfoundland in the two preceding semesters,)
- any other required supporting documentation.

Application fees must be paid when the application forms are submitted.

Application forms are available in person from the Faculty's General Office (room EN4019) and the Office of the Registrar or through the Faculty's website at **www.engr.mun.ca**. Application forms may also be obtained by writing:

Faculty of Engineering and Applied Science
Memorial University of Newfoundland
St. John's, NL
A1B 3X5

Or:

Office of the Registrar
Admissions Office
Memorial University of Newfoundland
St. John's, NL
A1C 5S7.

Admission to the Faculty is competitive for a limited number of placements. Meeting the minimum admission requirements does not guarantee acceptance into the engineering program. The final decision on admission to the engineering program rests with the Admissions Committee of the Faculty. The primary criterion used in reaching decisions on applications for admission is the Admission Committee's judgment of the likelihood of an applicant succeeding in the program.

Further information can be obtained at **www.engr.mun.ca** or by e-mail at **adeanugs@engr.mun.ca** or by telephone at (709) 737-8813.

HUMAN KINETICS AND RECREATION

www.mun.ca/hkr

General Information

The School of Human Kinetics and Recreation offers programs of study leading to the degrees of bachelor of kinesiology (co-operative) (B.Kin.(co-op)), bachelor of physical education (co-operative) (BPE(co-op)), and bachelor of recreation (co-operative) (B.Rec.(co-op)), under which regular full-time academic terms are alternated with full-time work terms in positions related to the student's future career. There are three work terms in each of the degree programs. The school also offers bachelor of kinesiology (B.Kin.), bachelor of physical education (BPE), and bachelor of recreation (B.Rec.) degrees. These degrees are comprised of 120 credit hours and may be completed on a full-time or part-time basis.

Honours Degrees

Honours degrees are offered in all of these programs, are integrated into the programs and are designed to permit students advanced study in the respective program areas. Superior academic achievement is required. All students must complete HKR 4610. Students completing the B.Rec. and B.Rec. (Co-op) degree programs must also complete HKR 4625 or 4635.

Degree Options

Kinesiology

The kinesiology degrees are designed to meet the needs of students wishing to study the science of human movement. Students taking these degrees are prepared to work in the areas of fitness, exercise prescription, ergonomics, work hardening and high performance sport.

The kinesiology degrees are comprised of 69 credit hours in kinesiology supported by courses such as English, mathematics, statistics, computer science, chemistry and psychology.

Physical Education

The physical education degrees have two options, a teaching option and a general option.

Teaching option - this is designed for students who wish to prepare themselves for a career as a physical education teacher. Following the BPE(co-op) or the BPE, prospective teachers need to complete the bachelor of education (intermediate/secondary) degree or the bachelor of education (intermediate/secondary) conjoint with the diploma in technology education.

General option - this is designed for students wanting to pursue a degree in physical education but who do not intend to teach.

Of the 120 credit hours required for the BPE degrees, approximately half are non-professional academic courses within the faculties of arts and science or other approved areas. The remaining courses deal with the professional theory and practice of physical education/recreation.

Students following the teaching option must choose a minor of at least 24 credit hours from one of the academic disciplines listed in the bachelor of education (intermediate /secondary) degree regulations on page 44 of this *Guide*. In completing the minor, students must follow the minor program regulations of the appropriate faculty, school or department.

Students following the general option must choose a minor of at least 24 credit hours. In completing the minor, students must follow the minor program regulations of the appropriate faculty, school or department.

Recreation

The recreation degrees are designed to prepare students who wish to enter the profession of leisure services management, therapeutic recreation and tourism/ outdoor/adventure recreation. The recreation degrees are comprised of 66 credit hours in recreation and 54 credit hours in other courses, including a minor and arts and science courses.

Admission Requirements

Admission is possible directly from high school or following completion of university courses. Admission is on the basis of competition for a limited number of places. Application forms are available from the Office of the Registrar. Completed application forms must be forwarded to the Office of the Registrar no later than **March 1** of the year in which admission is sought. Students are accepted into programs only in September of each academic year.

B.Kin.(Co-op)/B.Kin.

To be considered for admission to the B.Kin.(co-op) program or the B.Kin. degree program, students are required to meet the admission standard required for general university admittance. Admission to the programs will be through direct entry (after high school graduation) as well as transfer options from within Memorial and other approved post-secondary institutions. For direct entry from high school, applicants must, in addition to meeting the general admission requirements for Memorial, have successfully achieved the following:

- a score of at least 55 per cent on the Math Placement Test; and
- Level III science laboratory course with a grade of at least 70 per cent.

Applicants seeking admission to the program through transfer from within Memorial University or other accredited post-secondary institution must have achieved a minimum overall average of

60 per cent or an average of 65 per cent on the last 30 credit hours.

BPE(Co-Op)/BPE

To be considered for admission to the BPE(co-op) program or the BPE program, students are required to meet the admission standard required for general university admittance.

Admission to the programs will be through direct entry (after high school graduation) as well as transfer options from within Memorial and other approved post-secondary institutions.

Applicants seeking admission to Term 1 through transfer from within Memorial University or other accredited post-secondary institution must have achieved a minimum average of 60 per cent to be considered for admission.

In addition, students are required to submit a current first aid certificate, and pass a swimming test administered by the school. You may call the General Office at (709) 737-8130 to contact the swim test co-ordinators to arrange for testing. In lieu of the school swim test a Level 8 Red Cross or other credential satisfactory to the school may be accepted. Students unable to complete the swim test requirement before the beginning of the term of admission must successfully complete this requirement by the end of October, otherwise the student will be required to withdraw from the program.

B.Rec.(Co-op)/B.Rec.

To be considered for admission to the B.Rec.(co-op) program or the B.Rec. program, students are required to meet the admission standard required for general university admittance. Admission to the programs will be through direct entry (after high school graduation) as well as transfer options from within Memorial and other approved post-secondary institutions.

Applicants seeking admission to the B.Rec. (co-op) program through transfer from within Memorial University or other accredited post-secondary institutions must have achieved a minimum overall average of 60 per cent.

Human Kinetics & Recreation

Applicants seeking admission to the B.Rec. program must normally have completed six credit hours of English, Mathematics 1050/1051 or Mathematics 1090/1000 and three credit hours from non-HKR courses. Only students with an overall average of at least 60 per cent in the courses comprising the 15 credit hours required will be considered for admission to the program. Students must also have five years of relevant work experience, or equivalent, that is deemed acceptable by the Admissions Committee of the School of Human Kinetics and Recreation.

Below are the recommended courses for the first year for students that have been accepted into the following programs:

BPE (Co-op)/BPE

Semester I	Semester II
HKR 2000	HKR 2300
HKR 2100	Psychology 1000
Laboratory science (biology, chemistry or physics is recommended)	Laboratory science (biology, chemistry or physics is recommended)
Mathematics 1000, (1090, 1050, 1051)*	Elective (Mathematics 1000, 1050, or 1051 if required)*
English 1080	English 1101, 1102, 1103 or 1110
HKR 1123**	

*Students who complete Mathematics 1000 in first semester will choose an elective in second semester; all other students must complete a second-semester mathematics course.

**HKR 1123 is only required for students completing the co-operative degree program.

B.Kin. (Co-op)/ B.Kin

Semester I	Semester II
Chemistry 1010 or 1050	Chemistry 1011 or 1051
HKR 2000	HKR 2300
Mathematics 1000	Physics 1020 or 1050
Psychology 1000	Psychology 1001
English 1080	English 1101, 1102, 1103 or 1110

*Math 1000 must be completed before Academic Term 3.

B.Rec. (Co-op)/B.Rec.

Semester I	Semester II
English 1080	English 1101, 1102, 1103 or 1110
Mathematics 1000, (1090, 1050, 1051)*	Elective (Mathematics 1000, 1050, or 1051 if required)*
Psychology 1000	Psychology 1001
Business 1000	Business 1201
Sociology 1000	A course in subject of minor or elective

*Students who complete Mathematics 1000 in first semester will choose an elective in second semester; all other students must complete a second-semester mathematics course.

MEDICINE

www.med.mun.ca

General Information

A student who plans to study medicine should have a sound background in high school English, mathematics, chemistry and, if possible, physics and biology. In general, students who wish to enter the medical school are best advised to be sure to complete the prerequisite courses and pursue a degree program of their interest.

Getting into medical school is not automatic. The competition for the limited number of places is very keen. For the approximately 60 places available every year, there are about 700 applications from all over Canada, the United States and other countries; however, the policy of the medical school is to give Newfoundland and Labrador students priority. Based on the number of applicants in this pool (about 200 per year) and the number of places reserved (about 40 per year), a bona fide Newfoundland and Labrador resident stands about one chance in five of being admitted.

Applications

The application deadline is normally **Oct. 15** of each year. All applicants are encouraged to use the online Admissions System at the Admissions Office website to apply. All applicants for admission to medical school are screened by an admissions committee which considers academic performance, scores on the Medical College Admission Test (MCAT), referee reports, interview reports, extra-curricular activities including volunteer work and any other relevant information. MCAT consists of **four sections: verbal reasoning, physical sciences, writing sample, and biological sciences.**

Information pertaining to taking the MCAT may be obtained at:

www.aamc.org/students/mcat.

Or

Admissions Office, Faculty of Medicine
Health Sciences Centre, Room 1751
Telephone: (709) 777-6615
munmed@mun.ca
www.med.mun.ca/admissions/

Admissions Requirements

- a) The requirements for admission are a bachelor's degree, including the prerequisite of six credit hours in English to be completed at a recognized university or university college. In exceptional circumstances an application may be considered from someone who does not expect to hold a bachelor's degree at the time of admission. For further information on these circumstances, contact:

Admissions Office, Faculty of Medicine
Health Sciences Centre, Room 1751
Telephone: (709) 777-6615
munmed@mun.ca
www.med.mun.ca/admissions/

- b) Applicants must write the MCAT prior to the application deadline.

Candidates who are accepted into medical school will be awarded the doctor of medicine (MD) degree after successful completion of the four-year medical school program.

MUSIC

www.mun.ca/music

Bachelor of Music General Information

The bachelor of music (B.Mus.) is a four-year program intended to provide professional training and education in music. In the second year students will apply to major in one of the following areas: performance, theory/composition, music history and literature, general musical studies, or music education (five-year conjoint degree program offered in co-operation with the Faculty of Education). Students in the general musical studies major have the option of taking a minor in a discipline other than music.

Admission Requirements

Students are normally admitted to the B.Mus. degree program at the beginning of the fall semester only. Successful applicants may enter the program immediately in their first semester. All applications must be submitted to the Office of the Registrar. Deadline for applications is **Jan. 31** each year.

All applicants must satisfy the general admission requirements of the university as stated on page 3 of this *Guide*. In addition they must demonstrate their musical competence and potential at an audition, an aural test and a piano proficiency test. Auditions are held in March. Late auditions may be scheduled if spaces are available after the March auditions. Applicants who reside outside of the St. John's metropolitan area may submit a video or cassette tape or CD if they are unable to audition in person. Detailed information on audition requirements can be found in the entrance information booklet available from the School of Music, (709) 737-7486 or at www.mun.ca/music.

First-Semester Program

Students entering the B.Mus. degree program will normally take the following courses in first semester:

Course	Credit Hours
Music 140A	2
Music 2611 or Music 2612	1
Music 1002	3
Music 1107 ¹	3
Music 1117 ²	1
Music 1127 or Music 1137 ³	0
Electives ⁴ (to bring total to 15-17 credit hours) ⁵	2 - 4
English 1080 or a Research/Writing course (Faculty of Arts)	3

¹**Prerequisite:** Successful completion of the theory placement test. Students who do not pass the theory placement test at the time of the auditions may re-write the test at the first class meeting of Music 1120 for possible admission to Music 1107. If unsuccessful, they should register for Music 1120 instead of Music 1107.
Corequisite: Music 1117.

²Available only to students who have passed the theory placement and aural skills tests. If unsuccessful they must enrol in Music 1116.
Corequisite: Music 1107.

³Admission to Music 1127 or 1137 is restricted to students who have passed the piano proficiency exam administered during the audition period and at the start of each semester in the School of Music. Students whose principal applied study is a

keyboard instrument must register for Music 1137 instead of Music 1127.

⁴Electives may be chosen from:

- a) Music courses, such as Music 2700/2701 (Lyric Diction - recommended for singers), 2612-2616 (large ensembles other than festival choir), 3510 (chamber music) or 3511-3516 (chamber music - permission required). Students planning to apply for admission to the conjoint degrees program in music education should take one or more courses in instrumental techniques (Music 3221-3282).
- b) Disciplines other than music. Students planning to apply for admission to the conjoint degrees program in music education are encouraged to start taking courses in a second teachable subject as early as possible. For more information, see the Faculty of Education section beginning on page 41 of this *Guide*.

⁵Students admitted to the bachelor of music program will be permitted to register for a maximum of 17 credit hours per semester, without requiring written permission of the director.

Sample Program - Students Auditioning Next Year

First-year students planning to audition (or re-audition) for admission to the B.Mus. degree program in their second year should register for the following courses in first semester:

Course	Credit Hours
Music 2011, 2012, 2014 ¹ or 1002	3
Music 1107 or 1120 ²	3
Music 1116 or 1117 ³	1
Electives: One of Music 2611 - 2616 and/or courses from disciplines other than music ⁴	up to 6
English 1080	3

¹ Music 2011 (North American Popular Music), 2012 (Understanding Classical Music: Introduction Through Guided Listening) and Music 2014 (Introduction to World Music) are not applicable to the B.Mus. degree, but they are recommended as excellent preparation in music history for students who do not have the prerequisites for Music 1002.

²Music 1120 is not applicable to the B.Mus. degree. Students who have not yet written or passed the theory placement test may write the test at the first class meeting of Music 1120 for possible admission to Music 1107. Please note that access to Music 1107 is reserved for B. Mus. students. Only after the B. Mus. students have been accommodated will the courses be open to non-music students.

³Music 1117 is available only to students who have passed the theory placement and aural skills tests. If unsuccessful they must enrol in Music 1116. Students in Music 1117 must also be taking Music 1107.

Music

Note: Students taking 15 credit hours plus Music 1116, 1117 or any of 2611-2616 will need a course load waiver from the Academic Advising Centre permitting them to register for 16 credit hours.

⁴Students planning to apply for admission to the conjoint degrees program in music education are encouraged to take at least six credit hours in a second teachable subject. For more information, see the Faculty of Education section beginning on page 41 of this *Guide*.

Other Degree Programs

Students interested in music have options other than the B.Mus. degree program. Three of these options are:

School of Music Ensembles (non-credit or credit)

All students at Memorial University are welcome to audition for membership in the following School of Music ensembles: Concert Band, Jazz Ensemble, Chamber Orchestra, Festival Choir, Chamber Choir, and Opera Workshop. Auditions are held at the start of the fall and winter semesters. Students admitted to the ensembles may participate on a non-credit basis, or they may register for elective credit. For the audition schedules, and for information on registering for ensemble credit, contact the School of Music at (709) 737-7486.

Minor in Music History

A minor in music history requires 27 credit hours and is intended to provide a fairly detailed survey of the language and literature of music. It does not include practical training in performance.

Interdisciplinary Minor in Music and Culture

An interdisciplinary program offered jointly between the School of Music and the Department of Folklore, this minor will give students a unique interdisciplinary opportunity to learn about the musical traditions of Newfoundland and Labrador within the wider context of world music traditions.

Bachelor of Arts (BA), major in drama and music

This is a four-year interdisciplinary program offered in co-operation with the Department of English, Faculty of Arts. This program is not intended to train professional actors and musicians, but offers an introduction to drama and music as literature and cultural artifact.

Sample Program

Semester I	Semester II
Music 1120 or 1107 ¹	Music 1108 ¹
Music 1117 ¹	Music 1118
Music 1127 ²	Music 1128
Music 2012 or 2014	Music 2011 or 2014
Two electives ³	Two electives ³
English 1080	English 1101 (1102, 1103 or 1110)

Notes:

1. Prerequisite for Music 1107 and Music 1117 is successful completion of the theory placement test. Students who have not met the prerequisite should register for Music 1120, where they will have a chance to write the placement test at the first class meeting. Please note that access to Music 1107 is reserved for B.Mus. students. Only after the B.Mus. students have been accommodated will the course be open to non-music students.
2. Students must have completed or be currently registered in Music 1107 in order to take Music 1127. Successful completion of the piano proficiency test is also a prerequisite for Music 1127. Contact the School of Music for piano proficiency requirements and to schedule a test.
3. Students are encouraged to select courses to satisfy regulations for the bachelor of arts degree.

Note: Students may need a course load waiver form signed by the Academic Advising Centre.

NURSING

www.mun.ca/nursing

Bachelor of Nursing (Collaborative)

The bachelor of nursing (BN (Collaborative)) program is designed to provide students with a liberal education which prepares them to be direct care-givers, teachers, counsellors and advocates for their clients.

This four-year program is offered at:

- Memorial's School of Nursing
- The Centre for Nursing Studies in St. John's
- Western Regional School of Nursing in Corner Brook.

Admission is on the basis of competition for a limited number of places. Selection of candidates will be based on academic performance and other criteria considered suitable for professional practice in nursing.

In addition to the regular quota positions, up to three additional positions per year are available in the BN (Collaborative) program for students of aboriginal ancestry who have met the admission requirements. Applicants wishing to be considered under this clause must provide documentation of aboriginal ancestry.

Admission Requirements

New applicants to the BN (Collaborative) program will be accepted for the fall semester only. Applications, including all required documents, must be received by **March 1**. An application package may be obtained from the Office of the Registrar.

Applicants are required to meet the general admission requirements of Memorial University as outlined beginning on page 3 of this *Guide*. A minimum overall average of 70 per cent is required in the courses required for admission. In addition, Level III high school advanced math is preferred as it is a preparation for the required course in statistics. As well, high school science courses must include Biology 2201 and 3201 or their equivalents, and Chemistry 3202 or equivalent. In calculating the average Nursing will include Biology 2201 and 3201 and Chemistry 3202 grades.

Applicants who do not have the specified high school science course(s) are required to complete equivalency course(s) before they will be considered for admission. Biology 1001 and 1002 and Chemistry 1010 (1810 at Grenfell) may be used to fulfill the science courses requirement.

Mature applicants, as defined by Memorial University of Newfoundland, may be considered for admission if they have a high school diploma, or its equivalent, as certified by the Department of Education. Applicants must also have completed Biology 2201 and 3201 or equivalent and Chemistry 3202 or equivalent.

First-Year Program

All students admitted to the program must complete the Mathematics Placement Test (MPT) no later than the start of the fall semester in which they are admitted to the program. A score of 50 per cent on the MPT or successful completion of Math 102F, or successful completion of a remediation program approved by the school is a pre-requisite requirement for Nursing 2004 Pharmacology and Nutritional Therapies. Students will register for Nursing 2004 in the fall semester of their second year in the nursing program.

Students accepted to the BN (Collaborative) program will normally take the following courses in first year:

Semester I	Semester II
Nursing 1002	Nursing 1012
Nursing 1003	Nursing 1014
Nursing 1004	Nursing 1015
Biochemistry 1430	Nursing 1016
	Nursing 1017
English 1080 or equivalent	Nursing 1520
	Psychology 1000

A student who plans to apply to the program after a year at Memorial must complete the required biology and/or chemistry courses if they have not completed the required high school courses.

In addition, they may complete any of the non-nursing courses which are a required part of the program. These courses include:

- six credit hours in English
- Psychology 1000
- three credit hours in either sociology or anthropology
- three credit hours in political science
- three credit hours in business
- six credit hours in electives.

However, students should seek advice from the Academic Advising Centre prior to registering for required non-nursing courses.

Further information can be obtained from the sites' home pages:

www.mun.ca/nursing
www.swgc.ca/nursing
www.cns.nf.ca

PHARMACY

www.mun.ca/pharmacy

Bachelor of Science (Pharmacy)

The bachelor of science (pharmacy) program is designed to furnish students with the education necessary to provide pharmacy services to the public as a member of the health care team, to undertake specialty training, and to prepare for careers in research, the pharmaceutical industry, government, and pharmacy associations. The bachelor of science (pharmacy) degree requires a minimum of five years of university study (one year before and four years after admission to the School of Pharmacy). The degree is required to be licensed as a pharmacist.

The school, together with the General Hospital, the Janeway Child Health and Rehabilitation Centre, the Faculty of Medicine, and the School of Nursing, is located in the Health Sciences Centre. This setting is unique in Canada and provides an ideal situation for education in pharmacy.

Admission Requirements

Students are admitted only in September of each year, and applications must be received by **March 1**.

Students applying to enter are normally required to have completed a minimum of 30 credit hours, including the following courses or their equivalents:

- a) English 1080, 1101 or equivalent
- b) Mathematics 1000, 1001
- c) Chemistry 1050, 1051
- d) Physics 1020, 1021 (or 1050, 1051)
- e) Biology 1001, 1002

As part of the admissions process, interviews may be required which may include both a written and verbal component.

Admission to the program is on the basis of competition for a limited number of places. Priority for some places is given to students who are bona fide residents of Newfoundland and Labrador and who are Canadian citizens or permanent residents.

First-Year Program

Students interested in applying to pharmacy will normally take the following courses in their first year of university studies:

Semester I	Semester II
Chemistry 1050	Chemistry 1051
Physics 1020 (or 1050)	Physics 1021 (or 1051)
Biology 1001	Biology 1002
Mathematics 1000	Mathematics 1001
English 1080	English 1101, 1102, 1103 or 1110

Further information can be obtained from the School of Pharmacy's home page:
www.mun.ca/pharmacy.

SCIENCE

www.mun.ca/science

Bachelor of Science

Science has been described as “a way of knowing,” of finding out about ourselves and our world. The bachelor of science (B.Sc.) degree can be obtained in a wide range of disciplines, all of which expose you to the tools and techniques scientists use to discover, analyze, interpret, describe, and make predictions about subjects as small as sub-atomic particles and as large as the universe. A background in science is excellent preparation for living in our complex and increasingly technological world. Graduates of science programs can move on to such diverse areas as teaching, industry, private consulting, science journalism, the civil service, environmental law, research and development, or many other careers for which a B.Sc. is excellent preparation.

Memorial offers B.Sc. degree programs at the St. John's campus and at Grenfell. See page 74 of this *Guide* for a list of B.Sc. degree programs at Grenfell.

The B.Sc. degree (general or honours) requires the completion of 120 credit hours.

Subject Areas

Majors

Major programs for the B.Sc. are offered in:

- biochemistry
- biology
- chemistry
- computer science
- earth sciences
- economics
- geography
- mathematics and statistics
- physics and physical oceanography
- psychology (including behavioural neuroscience)

Minors

A student may elect to do an optional minor in science in the departments listed under possible major programs. An optional minor may also be chosen from the Faculty of Arts. Minors in business administration, music history and an interdisciplinary minor in music and culture are also available.

Honours Degree

The bachelor of science honours (B.Sc.(Hons.)) is also available in the major subject areas.

Joint Programs

A student may also elect to do a joint major program or a joint honours program. Current options are described in the university *Calendar*, but other combinations are also possible. Students interested in a joint program should contact the department(s) involved for advice before they declare a major.

Joint B.Comm.(Co-op)/B.Sc. in Computer Science Degrees

The joint degrees of bachelor of commerce (co-op) and bachelor of science with a major in computer science can be completed in five years provided appropriate planning is undertaken. For more information, please see page 40 of this *Guide*.

Other First-Year Courses Offered in the Faculty of Science

Science 1000
Science 1150, 1151

Admission Requirements

Admission to certain major programs within the faculty is limited and competitive. Students should contact the department of their proposed major in their first year of university for appropriate academic advice.

Unless otherwise indicated in the "Departmental Admission Regulations" as published in the university *Calendar*, students, upon formal application by "declaration/ change of academic program" form, are normally admitted to the department of major program upon successful completion of 30 credit hours which must include:

- six credit hours in English;
- six credit hours in mathematics;
- six credit hours in each of two sciences other than mathematics.

Students seeking admission to departments that have specific admission regulations as indicated above must apply for admission on the appropriate application form upon completion of the specified admission requirements.

First-Year Programs

Students pursuing a major within the B.Sc. degree will normally take the courses listed in the programs below.

Major in biochemistry/chemistry/physics
www.mun.ca/biochem/
www.physics.mun.ca
www.chem.mun.ca

Students pursuing a B.Sc. with a major in biochemistry, chemistry or physics will normally take the following courses in first year:

Semester I	Semester II
Chemistry 1050 (1010)*	Chemistry 1051 (1011)*
Physics 1050 (1020)**	Physics 1051**
Mathematics 1000 (1090)***	Mathematics 1001 (1000)***
English 1080	English 1101, 1102, 1103 or 1110
Elective	Elective

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090). Students completing Chemistry 1010/1011 will be required to complete Chemistry 1031 as well.

**Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). All students will be required to complete Physics 1051. Students who complete Physics 1050 with at least 50 per cent or Physics 1020 with at least 65 per cent should take Physics 1051.

***Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

Notes:

1. Students wishing to major in **chemistry** should try to achieve a 65 per cent average or better in their first-year chemistry, mathematics and physics courses, and to complete these courses in their first two semesters.
2. **Biochemistry** majors are required to complete Biology 1001/1002 which may be taken in place of physics in the first year. However, it is recommended that both physics and biology courses be taken in the first year (with no elective).
3. Entry to the **biochemistry** major program is based on academic standing. To be considered for admission to the program you must have at least 30 credit hours in courses and have successfully completed the following courses (or their equivalents) with a minimum overall average of 60 per cent:
 - English 1080, 1110 (or equivalent)
 - Chemistry 1050, 1051 (or 1010, 1011)
 - Mathematics 1000 (or 1090, 1000), 1001
 - Physics 1050, 1051 (or 1020, 1021), or Biology 1001, 1002

In addition, you must be eligible for entry into Chemistry 2400.

- 4.(a) In order to complete the biochemistry majors program within four years you MUST be eligible for Chemistry 2400 in the fall semester of your second year. The prerequisite for Chemistry 2400 is Chemistry 1051 or 1031; or a grade of 80 per cent in each of Chemistry 1010 and 1011; or a grade of 85 per cent in Chemistry 1011; or a grade of 65 per cent in Chemistry 1001.

- (b) All **biochemistry** majors who complete Chemistry 1010/1011 MUST complete Chemistry 1031 as it is a prerequisite for Chemistry 2300. It is **STRONGLY** recommended that you complete 1031 in the spring semester before beginning your second year of studies.
5. Applicants to the biochemistry major are strongly recommended to apply for admission by **June 30**.

Major in biology
www.mun.ca/biology

Students pursuing a B.Sc. with a major in biology who intend to complete their degree in eight semesters will normally take the following courses in first year:

Semester I	Semester II
Biology 1001	Biology 1002
Chemistry 1010 (1050)*	Chemistry 1011 (1051)
Physics 1020 (1050)**	Physics 1021 (1051)
Mathematics 1090***	Mathematics 1000
English 1080	English 1101, 1102, 1103 or 1110

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090).

**Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

***or Mathematics 1000 and an elective (see note 3 below)

Notes:

1. In order for a biology major to complete the biology program in eight semesters, the two first-year chemistry courses must be completed in the first year because they are prerequisites for courses normally taken in the second year by biology majors.
2. The two first-year physics courses are also required for a major in biology and should be completed in the first year in order to avoid timetable conflicts that arise in year two.
3. For biology majors, the mathematics requirement is Mathematics 1000. Students who take Mathematics 1000 in first semester will be able to take an extra first-year elective that can be counted towards the entrance requirements for the biology majors program. However, many students elect to take Mathematics 1090 in preparation for Mathematics 1000.
4. Students intending to major in biology must submit a departmental application form to the Department of Biology (SN-3125) declaring a major in biology. Forms are usually submitted during the second semester. Students will not be admitted into the biology majors program until they have met the entrance requirements (see note 5 below).
5. To be admitted to the biology majors program, you must obtain an average of 65 per cent in Biology 1001/1002 and have a minimum overall average of 60 per cent in the following courses:
 - English 1080, 1110 (or equivalent)
 - Mathematics 1090, 1000 (or Mathematics 1000 and an elective)
 - Chemistry 1010, 1011 or Chemistry 1050, 1051 (or Physics 1020, 1021 or 1050, 1051 or 1020, 1051)

Major in computer science

www.cs.mun.ca/

Students pursuing a B.Sc. with a major in computer science will normally take the following courses in first year:

Semester I	Semester II
Computer Science 1700* or 1710** (or science elective)	Computer Science 1710** or 2710***
Mathematics 1000 (1090)****	Computer Science 2742*** or science elective
English 1080	Mathematics 1001 (1000)****
Science elective	English 1101, 1102, 1103 or 1110
Elective	Elective

*Computer Science 1700 is recommended for students wishing to major in computer science, but who have no programming experience.

**Computer Science 1710 has a prerequisite of Mathematics 1090, (or equivalent), or Mathematics 1000. Mathematics 1000 can be taken concurrently.

***Computer Science 1710 is a prerequisite for Computer Science 2710 and 2742.

****Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

Major in earth sciences

www.mun.ca/earthsciences/about

Students pursuing a B.Sc. with a major in earth sciences will normally take the following courses in first year:

Semester I	Semester II
Earth Sciences 1000	Earth Sciences 1002
Chemistry 1010 (1050)*	Chemistry 1011 (1051)
Physics 1020 (1050)**	Physics 1021 (1051)**
Mathematics 1000 (1090)***	Mathematics 1001 (1000)***
English 1080	English 1101, 1102, 1103 or 1110

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090).

**Students pursuing a geophysics specialization within earth sciences will be required to complete Physics 1051. Students who complete Physics 1020 with at least 65 per cent should take Physics 1051. Otherwise, they should take Physics 1050. Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

***Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well

Notes:

1. To be formally admitted to major programs in earth sciences, you must have successfully completed three first-year credit hours in each of the following departments: English, mathematics, chemistry, physics, earth sciences. Students are encouraged to declare their major in earth sciences in the second semester of their first year.

2. Registration for the core second-year courses in earth sciences normally requires that all of the first-year courses be completed. It is possible to take Mathematics 1001 as a co-requisite. It is essential that students plan their first year of study with care and should consult the department web page.

Major in economics

arts-srv.arts.mun.ca/economics/

Students pursuing a B.Sc. with a major in economics will normally take the following courses in first year:

Semester I	Semester II
Computer Science 1700*	Appropriate second-year course or Computer Science 1700 or science elective
Economics 2010	Economics 2020
Mathematics 1000 (1090)**	Mathematics 1001 (1000)**
English 1080	English 1101, 1102, 1103 or 1110
Elective	Elective

*Computer Science 1700 has a co-requisite of Mathematics 1090 or Mathematics 1000.

**Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

Note: A co-operative program is available to majors in economics. For more information, please see page 35 of this *Guide*.

Major in geography
www.mun.ca/geog/

Students pursuing a B.Sc. with a major in geography will normally take the following courses in first year:

Semester I	Semester II
Mathematics 1090*	Mathematics 1000*
Geography 1050	Geography 2000 level**
English 1080	English 1101, 1102, 1103 or 1110
First of two courses in a first science discipline	Second course in a first science discipline
First of two courses in a second science discipline	Second course in a second science discipline

*or Mathematics 1000 and an elective, or Mathematics 1050 and 1051. Students should be aware that a B.Sc. degree requires six credit hours in mathematics. The completion of Mathematics 1000 as one of these mathematics courses will allow for greater choice in the selection of geography courses, particularly physical geography courses.

** Please refer to page 94 of this *Guide* for descriptions of 2000-level geography courses

Major in applied mathematics/pure mathematics/statistics
www.math.mun.ca/#

Students pursuing a B.Sc. with a major in applied mathematics, pure mathematics or statistics will normally take the following courses in first year:

Semester I	Semester II
Physics 1050 (or 1020)*	Physics 1051
Mathematics 1000 (or 1090)**	Mathematics 1001 (or 1000)**
English 1080	English 1101, 1102, 1103 or 1110
Science elective	Science elective
Elective	Elective

*For applied mathematics majors only. Pure mathematics and statistics majors may substitute another science elective in place of physics. Applied mathematics majors will be required to complete Physics 1051. Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). Students who complete Physics 1050 with at least 50 per cent or Physics 1020 with at least 65 per cent should take Physics 1051. Otherwise, they should take Physics 1050.

**Students completing Mathematics 1090/1000 are also required to complete Mathematics 1001.

Major in nutrition

www.mun.ca/biochem/

Students pursuing a B.Sc. with a major in nutrition will normally take the following courses in first year:

Semester I	Semester II
Chemistry 1010 (1050)*	Chemistry 1011 (1051)
Physics 1020 (1050)**	Physics 1021 (1051)
Biology 1001	Biology 1002
Mathematics 1090 (or 1000)***	Mathematics 1000 or elective
English 1080	English 1101, 1102, 1103 or 1110

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090).

**Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

***Students admitted directly to Mathematics 1000 may take an elective in the second semester.

Notes:

1. Entry to the nutrition majors program is based on academic standing. To be considered for admission you must have at least 30 credit hours and have successfully completed the following courses with a minimum overall average of 60 per cent:
 - a) English 1080, 1110 (or equivalent)
 - b) Mathematics 1090, 1000 (or Mathematics 1000 and an elective)
 - c) Chemistry 1010, 1011 (or 1050, 1051)
 - d) Physics 1020, 1021 (or 1050, 1051), or Biology 1001, 1002

2. Applicants to the nutrition major are strongly recommended to apply for admission by **June 30**.
3. The Department of Biochemistry does not expect to admit students to the dietetics program for fall 2008. Further information on the status of the program can be obtained from the department.

Major in psychology

www.mun.ca/psychology/undergraduate

Students pursuing a B.Sc. with a major in psychology will normally take the following courses in first year:

Semester I	Semester II
Biology 1001	Biology 1002
Chemistry 1010 (1050) or Physics 1020 (1050)*	Chemistry 1011 (1051) or Physics 1021 (1051)
Mathematics 1090**	Mathematics 1000**
Psychology 1000	Psychology 1001
English 1080	English 1101, 1102, 1103 or 1110

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090). Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

**or Mathematics 1000 and an elective

Notes:

1. Admission to the major program is competitive and selective. To be eligible for admission, you must have completed 24 credit hours with an average of at least 65 per cent in Psychology 1000/1001 and an overall average of at least 60 per cent in the following courses:
 - English 1080, 1101 (or equivalent)

- Mathematics 1000, or 1090 and 1000, or **two** of 1090, 1050 and 1051 (Students pursuing a B.Sc. must complete Mathematics 1000.)
- Psychology 1000, 1001

Meeting these minimum criteria does not guarantee admission to the program.

2. Students intending to major in psychology must submit a departmental application form to the department by **June 1** for fall semester or **Oct. 1** for winter semester.

Major in behavioural neuroscience
www.mun.ca/psychology/undergraduate

Students pursuing a B.Sc. with a major in behavioural neuroscience will normally take the following courses in first year:

Semester I	Semester II
Chemistry 1010 (1050)*	Chemistry 1011 (1051)
Biology 1001 or Physics 1020 (1050)**	Biology 1002 or Physics 1021 (1051)
Mathematics 1000 (or 1090)***	Mathematics 1001 (or 1000)***
Psychology 1000	Psychology 1001
English 1080	English 1101, 1102, 1103 or 1110

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090).

**Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

***Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

Notes:

1. Admission to the program is competitive and selective. To be eligible you must have completed 24 credit hours with an average of at least 65 per cent in Psychology 1000/1001 and an overall average of at least 60 per cent in the following courses:
 - a) English 1080, 1101 (or equivalent)
 - b) Mathematics 1000, **or** Mathematics 1090 and 1000
 - c) Psychology 1000, 1001

Meeting these minimum criteria does not guarantee admission to the program.

2. Students intending to major in behavioural neuroscience must submit a departmental application form to the Psychology Department by **June 1** for fall semester or **Oct. 1** for winter semester.

SOCIAL WORK

www.mun.ca/socwrk

Bachelor of Social Work

The bachelor of social work (BSW) degree qualifies the graduate for beginning professional practice in social work. The program's aim is to educate social workers with broadly based generalist skills in working with individuals, families, communities and groups. Special emphasis is placed on social work in rural settings. Graduates are also prepared for work in larger urban areas.

The objectives of the bachelor of social work program are the achievement of:

- (1) a liberal education involving general knowledge of people and nature, use of analytical and critical competence and personal social responsibility
- (2) the learning of the fundamental knowledge, values and skills necessary for professional practice. A candidate for the bachelor of social work degree must complete 84 credit hours in social work and 66 credit hours in other courses.

The major focus of the School of Social Work is to educate students to be able to practice social work in a variety of settings. Some of the settings include child protection, health care, addictions and justice, to name a few. Some of the skills you will be educated in include assessment, interviewing, counselling, advocacy, program/policy analysis and clinical case management.

Included in the 84 credit hours in required social work courses are two field placements, one in the fourth year (12 credit hours) and one in the fifth year (15 credit hours). Field placements are province-wide and designed to provide students with a broadened experience of social work in natural practice settings. Students are expected to do one of their two placements in a rural setting.

Admission Requirements

Candidates for a bachelor's degree in social work are to apply by **March 1** of the year in which admission is sought.

Forty-five credit hours must be successfully completed by the end of the fall semester prior to the March 1 application deadline.

Admission is competitive and is normally into the third year of the social work program. An applicant must have at least a 65 per cent average in the courses comprising the last 30 credit hours completed by the deadline date to be eligible for admission. Averages will not be rounded up. Selection will be based on academic standing, personal suitability for a social work career, relevant work/volunteer experience, references and such other criteria as the School of Social Work may require. Applicants will normally be notified of admissions decisions by May 15. Applications received after March 1 will be considered if a place is available in the school.

To be considered for admission applicants must have successfully completed 45 credit hours by the end of the fall semester before applying, including:

- a) six credit hours in English
- b) nine credit hours in psychology at least three of which must be chosen from Psychology 2010/2011/2012* (or equivalent for Grenfell students only). Please see the current *Calendar*. Grenfell students should consult the *Calendar* for equivalencies.
- c) three credit hours in sociology
- d) three credit hours in either anthropology, geography or political science
- e) Social Work 2510 and/or Social Work 2700*. A minimum grade of 65 per cent must be obtained.
- f) three credit hours chosen from the Philosophy 2800-2810 series or Women's Studies 2000
- g) further courses from Schedule A in the Social Work section of the *Calendar* to make up 45 credit hours.

*Although only one of Psychology 2010, 2011 or 2012 (or equivalent) and one of Social Work 2510 or 2700 must be completed prior to the application deadline, the other courses in these groupings must be completed PRIOR to commencement of the third year of the program since these courses are prerequisite to 3000-level social work courses. As well, a further three credit hours in sociology must be completed prior to commencement of the third year of the program. In addition, in accordance with academic standards and promotion regulations, a minimum grade of 65 per cent is required in Social Work 2510 and 2700.

Sample Program

Note: This is a sample program only; there are other possibilities.

Semester I	Semester II
Psychology 1000	Psychology 1001
Sociology 1000	Anthropology 1030 or 1031 or Geography 1050 or Political Science 1000, 1010 or 1020
English 1080	English 1101, 1102, 1103 or 1110
Two Schedule A electives	Two Schedule A electives

Please refer to the university *Calendar* (www.mun.ca) for an outline of second year courses for the social work program. Students may contact the chairperson of admissions for social work at 737-2558 for further information.

SIR WILFRED GRENFELL COLLEGE

www.swgc.ca

General Information

Sir Wilfred Grenfell College (Grenfell) offers four-year degree programs in arts, science, business administration, fine arts and nursing. The bachelor of arts degree is available in English, environmental studies, historical studies, humanities, psychology, social/cultural studies, and tourism studies. A bachelor of arts (honours) is available in psychology. The bachelor of science degree is offered (with the option of a general or honours degree) in environmental science, general science and psychology. Grenfell's BBA program offers concentrations in the areas of contemporary business studies, small business and entrepreneurship, and regional economic development. The arts, science and business administration degrees have a common set of regulations - the core program - that is different from the degree regulations governing arts, science and business administration degrees on the St. John's campus. The bachelor of fine arts degree is offered in theatre and visual arts and is available only at the Grenfell campus. The bachelor of nursing degree is offered in conjunction with Western Regional School of Nursing.

Full information about these programs can be obtained from the registrar's office at Grenfell, info@swgc.ca, (709) 637-6298 or toll free 1-866-381-7022.

Arts and Science Degrees

For the bachelor of arts and bachelor of science degrees at Grenfell, students must complete a minimum of 120 credit hours made up of the following components:

- **core** program requirements (see below)
- an approved concentration of courses known as a **major**

- an approved concentration of courses known as a **minor** (**Note:** A minor is not required for interdisciplinary programs or for the bachelor of science in psychology. However, students in such programs may choose to complete a minor.)

At Grenfell, minors are available in art history, business, Canadian studies, classics, English, environmental science, environmental studies, folklore, general science, geography, historical studies, humanities, mathematics, philosophy, psychology, religious studies, science, social/cultural studies, sociology and tourism studies.

- electives

The core program requirements include:

- ❖ literacy requirement (30 credit hours)
- ❖ quantitative reasoning and analysis (QRA) requirement (six credit hours)
- ❖ breadth of knowledge requirement (18 credit hours chosen from three groups)

For more information, please refer to the university *Calendar*.

Bachelor of Arts

General Information

Students enter the Grenfell bachelor of arts (BA) degree program by declaring a major in English, environmental studies, historical studies, humanities, psychology, social/ cultural studies, or tourism studies. To qualify for the degree students must complete 120 credit hours subject to the core program and major and minor requirements.

First-Year Programs

English major

www.swgc.ca/english

Students pursuing an English major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Course in minor area	Course in minor area
Designated quantitative reasoning and analysis (QRA) course	Designated quantitative reasoning and analysis (QRA) course
Two electives	Two electives

Environmental studies major

www.swgc.ca/envstudy

Students pursuing an environmental studies (environmental perspectives or outdoor recreation) major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Geography 1000	Geography 1001
Environmental Studies 1000	Three electives
Economics 2010	
Elective	

Historical studies major

www.swgc.ca/histstd

Students pursuing an historical studies major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
History 1100	History 1101
Designated quantitative reasoning and analysis (QRA) course or elective	Designated quantitative reasoning and analysis (QRA) course or elective
Two electives	Two electives

Humanities major

www.swgc.ca/humanities

Students pursuing a humanities major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Designated quantitative reasoning and analysis (QRA) course or elective	Designated quantitative reasoning and analysis (QRA) course or elective
Two humanities courses (discipline 1 and 2)*	Two humanities courses (discipline 1 and 2)*
Social science course**	Social science course**

* For example, Classics 1100 or French 1500 or History 1100 or Philosophy 1200 or Religious Studies 1010 or 2050, etc.

**For example, Anthropology 1031 or Economics 2020 or Geography 1000 or Psychology 1000 or Folklore 1000, etc.

Psychology major

www.swgc.ca/psych

Students pursuing a psychology major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Mathematics 1000 or 1090 or 1050	Mathematics 1001 or 1000 or 1051
Psychology 1000	Psychology 1001
Course in minor area	Course in minor area
One elective	One elective

Social/cultural studies major

www.swgc.ca/soc_cultural

Students pursuing a social/cultural studies major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Designated quantitative reasoning and analysis (QRA) course	folklore/sociology/Anthropology 2230
Folklore 1000	Anthropology 1031
Sociology 2000	Two electives
Elective	

Tourism studies major

www.swgc.ca/tourism

Students pursuing a tourism studies major will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Tourism 1000	Tourism 1100
French 1501	French 1502
Business 1000	Elective
Elective	Elective

Bachelor of Business Administration

www.swgc.mun.ca/business

General Information

To qualify for the degree of bachelor of administration (BBA), students must complete 120 credit hours subject to Grenfell's core program and specific BBA program requirements.

Specific BBA requirements include:

- 30 credit hours for continuance/admission to the program
- 48 credit hours in core program requirements
- 12-15 credit hours to satisfy program's concentration requirements
- electives to make up the total of 120 credit hours

Students may apply for admission directly from high school by indicating this in the appropriate place on their Undergraduate Application for Admission/Readmission. Direct admission from high school is subject to the applicant's final acceptance to the University.

Regardless of concentration area chosen all business students will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Mathematics 1000 (or 1090)	Elective (Mathematics 1000)
Economics 2010	Economics 2020
Business 1000	Business 2000
Elective	Elective

Bachelor of Fine Arts (Theatre)

www.swgc.ca/theatre

General Information

The bachelor of fine arts (BFA) (theatre) requires 120 credit hours over a four-year period. The core of the degree consists of 75 credit hours in theatre and 18 credit hours in dramatic literature. Students major in acting or stagecraft, but the courses in dramatic literature are common to both areas. In addition, theatre students are required to take six credit hours in first-year English, six credit hours in art history and 15 credit hours in electives in consultation with the program chair.

Admission Requirements

In addition to meeting the general academic requirements of the university, applicants for the BFA (theatre) must undergo an audition/interview to the satisfaction of the department. Enrolment in the program is limited and selection is competitive. The deadline for applications is **April 30** of the year in which entry is sought.

First-Year Program

Students accepted to the BFA (theatre) program will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Theatre 1000	Theatre 1001
Theatre 1010	Theatre 1110 or 1120
Theatre 1020	Two electives
Elective	

Bachelor of Fine Arts (Visual Arts)

www.swgc.ca/visual

General Information

The bachelor of fine arts (BFA) (visual arts) is a professional program designed to educate and train students in the history, theory and practice of the visual arts. Courses are offered in drawing, painting, sculpture, printmaking, photography, multimedia, digital imaging and art history. In addition to studio and art history courses, students will take 24 credit hours in appropriate academic courses chosen in consultation with the department. This degree requires 120 credit hours over a four-year period.

Admission Requirements

In addition to meeting the general academic requirements of the university, applicants for the BFA (visual arts) will be required to submit a portfolio of previous art work and a completed department application form before **April 15** of the year in which entry is sought. Enrolment in the program is limited and selection is competitive.

First-Year Program

Students accepted to the BFA (visual arts) will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Visual Arts 100A	Visual Arts 100B
Visual Arts 110A	Visual Arts 110B
Visual Arts 120A	Visual Arts 120B
Visual Arts 2700	Visual Arts 2701

Bachelor of Science

General Information

The bachelor of science (B.Sc.) in environmental science, general science or psychology requires the completion of at least 120 credit hours.

Environmental science major

www.swgc.ca/envs

To qualify for the degree students must complete core requirements common to the BA and B.Sc. as well as major requirements. Students may choose to specialize in the biology stream or the chemistry stream. The environmental science core ensures a broad education in not only scientific but also cultural, ethical and political issues concerning the environment. In the third and fourth years, students take in-depth environmental biology or environmental chemistry courses that give expertise in the chosen stream.

First-Year Programs

Students pursuing the B.Sc. (Environmental Science) degree will normally take the following courses in first year:

Biology Stream

Semester I	Semester II
English 1000	English 1001
Mathematics 1090 or 1000	Mathematics 1000 or Statistics 2550
Biology 1001	Biology 1002
Chemistry 1200 (or 1810)*	Chemistry 1001 (or 1200)
Physics 1020 or 1050	Physics 1021 or 1051

*Students taking Chemistry 1810/1200 in semesters I and II must take Chemistry 1001 in intersession to complete first-year requirements.

Note:

1. Students who complete their first year in St. John's must complete Chemistry 1010/1011 before transferring.
2. Students who complete 1050/ 1051 (or 1010/1011/1031) before transferring to Grenfell will have a wider choice of second-year chemistry courses.

Chemistry Stream

Semester I	Semester II
English 1000	English 1001
Mathematics 1000 (or 1090)	Mathematics 1001 (or 1000)
Chemistry 1200 (or 1810)*	Chemistry 1001 (or 1200)
Physics 1020 or 1050	Physics 1021 or 1051
Earth Sciences 1000	Elective

*Students taking Chemistry 1810/1200 in semesters I and II must take Chemistry 1001 in intersession to complete first-year requirements. Students should complete Mathematics 1001 in their first year.

Note: Students who complete their first year in St. John's must complete one of the following sequences before transferring to Grenfell:

- Chemistry 1050/1051
- Chemistry 1010/1011/1031

General Science major

www.swgc.ca/science

To qualify for the degree students must complete core requirements common to the BA and B.Sc. as well as requirements for the major. Students must complete a General Science core and must choose three of the following streams: biology, chemistry, earth systems, mathematics and physics.

Students will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Mathematics 1000 (or 1090)	Mathematics 1001 (or 1000)
First of two courses in a first laboratory science*	Second course in a first laboratory science*
First of two courses in a second laboratory science*	Second of two courses in a second laboratory science*
First of two courses in a third laboratory science* or elective	Second of two courses in a third laboratory science* or elective

*Laboratory sciences must be chosen from the following:

- Biology 1001, 1002
- Chemistry 1200 (or 1810**), Chemistry 1001 (or 1200)
- Earth Science 1000, 1002

- Mathematics 1000 (or 1090), Mathematics 1001 (or 1000)
- Physics 1050, 1051

**Students taking Chemistry 1810/1200 in Semesters I and II must take Chemistry 1001 in intersession to complete first-year requirements.

Notes:

1. The same laboratory science selected in Semester I has to be completed in Semester II, i.e., if you complete Biology 1001 in Semester I you must complete Biology 1002 in Semester II.
2. Students who complete their first year in St. John's must complete Chemistry 1010/1011 before transferring. Students who complete 1050/1051 (or 1010/1011/1031) before transferring to Grenfell will have a wider choice of second-year chemistry courses.

Psychology major

Students pursuing a psychology major through a B.Sc. degree will normally take the following courses in first year:

Semester I	Semester II
English 1000	English 1001
Mathematics 1000 (or 1090)	Mathematics 1001 (or 1000)
Psychology 1000	Psychology 1001
Biology 1001	Biology 1002
Chemistry 1200 or Physics 1020 (or 1050)	Chemistry 1001 or Physics 1021 (or 1051)

Part III

Description of First Year Courses

ANTHROPOLOGY & ARCHAEOLOGY

In cartoons and movies, anthropologists and archaeologists are often shown wearing pith helmets and shorts in a tropical jungle or digging up mummies in the desert with a pyramid in the background. These images are not entirely wrong: some actually do that sort of thing. However, anthropology and archaeology are much more diverse than these stereotypes indicate. These are broad-based comparative studies of human biology, society and culture, past and present. Because of the emphasis on comparison, anthropology and archaeology have paid special attention to small-scale societies outside the Western European cultural tradition, but nowadays anthropologists and archaeologists can be found doing their research in cities and factories as well as in villages and hunting camps.

Within the disciplines of anthropology and archaeology there are several broad areas of specialization:

Physical anthropology concentrates on how human beings acquired their present form and behaviour by tracing human evolution and physical diversity.

Archaeology is the study of human societies by means of the material traces they have left behind: tools, bones, house remains, and so on.

Social and cultural anthropology is the comparative study of the ideas, beliefs, and ways of life of human groups.

Applied anthropology is the application of anthropological knowledge to practical problems such as economic development, social conflict and environmental pollution.

Courses in anthropology and archaeology provide a valuable background for students who intend to specialize in any of the social sciences or humanities, or in medicine, nursing, social work,

education, law, business, government, communications and many other fields.

Students who want to specialize by doing a major or a minor program may choose between a concentration in archaeology/physical anthropology or social/cultural anthropology.

Archaeology 1030

Introduction to Archaeology and Physical Anthropology is a broad overview of Archaeology and Physical Anthropology introducing the concepts of human biological and cultural evolution and the methods and techniques by which these are investigated. The course is designed to provide the basis for further study in the disciplines.

Lectures: Three hours per week

Prerequisite: None

Anthropology 1031

Introduction to Social and Cultural Anthropology is a general introduction to Anthropology emphasizing different forms of society and culture. Cultures within and outside the Western tradition will be examined, ranging from small-scale to more complex pre-industrial societies.

Lectures: Three hours per week

Prerequisite: None

Notes:

1. Archaeology 1030 and Anthropology 1031 courses need not be taken in numerical order. Students who major or minor in Anthropology and Archaeology are expected to take both.
2. Archaeology 1030 is a prerequisite for most other archaeology/physical anthropology courses.
3. Anthropology 1031 is a prerequisite for most other social/cultural anthropology courses

ART HISTORY

Art history is a special branch of general history that focuses on the development of different forms of art and material culture. It examines the political, social and historical circumstances that helped to produce these works. Students are taught to recognize the many and varied artistic expressions that have developed from ancient times to the present. Such study requires no artistic ability in the student, only interest in the subject itself. Lectures are normally accompanied by illustrations in the form of slides, videos or objects of art. The purpose of art history is to teach the student how to understand and critically consider the dynamic and various cultural manifestations to which the arts give expression, and the role the arts play in larger society.

Visual Art 2700

Art History Survey I (available only at Grenfell) is the history of art from pre-historic times to the Renaissance.

Lectures: Three hours per week.

Prerequisite: None

Visual Art 2701

Art History Survey II (available only at Grenfell) is the history of art from the Renaissance to the twentieth century.

Lectures: Three hours per week

Prerequisite: None

Notes:

1. Credit may not be obtained for both Visual Arts 2700 and History 2700.
2. Credit may not be obtained for both Visual Arts 2701 and History 2701.

BIOLOGY

Biology is the study of living organisms and their attributes, and includes such topics as molecular biology, cell biology, anatomy, physiology, biochemistry, systematics and ecology. Of all the sciences, biology is perhaps the most closely related to everyday life. We are exposed daily to news and documentary reports on biological topics such as genetic engineering, environmental conservation, pollution, disease and immunology, social and behavioural interactions and population growth. Biology, therefore, is not only a specific and rigorous science, but also may be approached in a broader sense as a general interest science relevant to many aspects of daily life. The first-year courses provide an insight into biology as a scientific discipline of direct relevance to all, while at the same time allowing more detailed exploration of certain branches of the subject.

Biology 1001

Principles of Biology introduces biology as a scientific discipline, outlines the unifying ideas in modern biology, and then illustrates these ideas by examining selected aspects of the form, function and diversity of some major groups of living organisms.

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: None

Biology 1002

Principles of Biology is a continuation and extension of the principles embodied in Biology 1001.

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: Biology 1001

Note: Students who have written the College Board Advanced Placement Biology exam should consult Appendix "B" for possible awarding of credit.

BUSINESS

Business 1000

Introduction to Business is an overview of business in the Canadian environment is presented in the course with emphasis on the stakeholders involved and the issues confronting managers. The course examines the functional areas of the enterprise (finance, marketing, production, and human resources management) in addition to providing an overview of the business system. An analysis of actual business situations provides a framework of study.

Lectures: Three hours per week

Prerequisite: None

Business 2000

Business Communications focuses on the development of written and oral communication skills critical in the workplace. The common communications media are reviewed with emphasis on electronic and written correspondence. Students learn how to prepare comprehensive analytical reports including proposal writing. Attention is also given to building confidence in delivering oral presentations and preparing appropriate employment packages. A highly interactive design encourages student practice and participation.

Lectures: Three hours per week

Prerequisite: None

CHEMISTRY

Chemistry is a science whose theories, principles and laws are based on many experimentally observed facts. Chemistry is concerned with the composition, structure and properties of substances, the reactions of substances with each other and the energy changes that occur in these reactions. The first-year chemistry program consists of a two-course option for those who are well prepared from high school, Chemistry 1050/1051 (St. John's) or Chemistry 1200/1001 (Grenfell), or a three course stream for those less prepared, Chemistry 1010/1011/1031 (St. John's) or Chemistry 1810/1200/1001 (Grenfell). Students who commence a sequence on one campus (e.g., 1200/1001 at Grenfell) should complete the full sequence before transferring to the other campus due to differences in course content and the distribution of topics covered in each sequence of courses. See notes below for entrance criteria.

Chemistry 1010 and 1011

Introductory Chemistry I and II examines descriptive chemistry; atomic structure; chemical bonding; periodicity illustrated by the chemistry of selected elements; mole concept and stoichiometry; physical properties of matter; energetics; rates of reaction; chemical equilibrium; electrochemistry.

Lectures: Four hours per week

Laboratory/Tutorial: Three hours per week

Prerequisite: Chemistry 1010 is a prerequisite for Chemistry 1011.

Chemistry 1031

Introductory Chemistry III prepares students who have completed Chemistry 1010 and 1011 for Chemistry 2210, 2300 and 2400. It augments the topics covered in Chemistry 1010 and 1011 with the greater depth and problem solving emphasis of Chemistry 1050 and 1051.

Lectures: Four hours per week

Laboratory: Three hours per week

Prerequisite: Chemistry 1011 and Mathematics 1000

Chemistry 1050 and 1051

General Chemistry I and II has topics that will be similar to Chemistry 1010/1011 but will be treated in greater depth with an emphasis on problem solving.

Lectures: Four hours per week

Laboratory: Three hours per week

Prerequisite: Mathematics 1000. Mathematics 1000 may be taken concurrently with Chemistry 1050. Chemistry 1050 and Mathematics 1000 are prerequisites for Chemistry 1051.

Chemistry 1810

Elements of Chemistry (available only at Grenfell) Matter, scientific measurement, atomic theory, the periodic table, chemical compounds and elementary bonding theory, the mole, chemical reactions, the chemistry of selected elements, gases, solutions, stoichiometry. This course is specifically intended for those who have no background in chemistry.

Lectures: Four hours per week

Laboratory: Three hours per week

Prerequisite: None

Note: This course may not be used as one of the Chemistry courses required for a B.Sc. degree with a Specialization in Environmental Science at Sir Wilfred Grenfell College, nor for a Major or Honours in Chemistry, nor towards fulfilment of the 78 credit hours in science courses required for the B.Sc. degree on the St. John's campus. Credit may be obtained for only one of Chemistry 1810 or Chemistry 1800.

Chemistry 1900

Chemistry in Everyday Life (available only at Grenfell) is a course that shows the relevance of chemistry in our daily lives. Following an introduction to atomic structure and chemical bonding, the course will focus on some of the following topics: organic chemistry and fuels; redox processes and batteries; acids, bases, and household cleaners; phases and detergents; the chemical components of foods; polymers and plastics; toiletries, and pharmaceuticals.

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: None

Note: Chemistry 1900 may not be used as one of the required courses towards a minor, major, or honours in any science degree program.

Chemistry 1200

General Chemistry I (available only at Grenfell) is atomic structure and bonding, stoichiometry, reactions in aqueous solutions, gases, energetics of chemical reactions, the periodic table, chemical bonding and molecular geometry, intermolecular forces. This introductory course is intended for students who have a knowledge of high school chemistry.

Lectures: Four hours per week

Laboratory: Three hours per week

Prerequisite: Students should have Chemistry 3202, or at least 75 per cent in Chemistry 2202, or have successfully completed Chemistry 1810.

Note: Credit may be obtained for only one of the following pairs of courses: Chemistry 1000 and 1001; Chemistry 1200 and 1001.

Chemistry 1001

Introductory General Chemistry II (available only at Grenfell) is rates of reaction, chemical equilibria, thermodynamics, and introduction to organic chemistry.

Lectures/Tutorials: Four hours per week

Laboratory: Three hours per week

Prerequisite: Chemistry 1200 or equivalent

Notes:

1. For entry to Chemistry 1050 students must have achieved at least 75 per cent in high school Chemistry 3202, or an equivalent Grade 12 or level III chemistry course.
2. Other students, including those with no high school chemistry background, will take Chemistry 1010 (or Chemistry 1810 at Grenfell). It is recommended that students have at least 70 per cent in Level III academic math in high school, or a pass in any non-foundation university level mathematics course.

3. Students who are required to drop from Mathematics 1000 to Mathematics 1090 as a result of their Math Placement Test score should not drop Chemistry 1050 before contacting the Chemistry department.
4. Students who have done well in Chemistry 3202 and who register for Mathematics 1000 are strongly advised to do Chemistry 1050 at Memorial and not Chemistry 1010. Chemistry 1050 and 1051 provide an excellent preparation for all subsequent programs at Memorial and at other Canadian universities.
5. Students completing Chemistry 1010 and 1011 must also complete Chemistry 1031 for some programs at Memorial. Students who plan to transfer to a program at another university are advised that they may not receive transfer credit for Chemistry 1010 and 1011 unless they also complete Chemistry 1031.
6. Only six science credit hours will be awarded for a major or honours in chemistry from the following course groups: Chemistry 1010/1011/1031, or Chemistry 1810/1200/1001 (Grenfell).

CLASSICS

Classics is the study of the ancient Greek and Roman cultures from which our own modern civilization has developed and by which our society continues to be conditioned. There is hardly any field of human thought or activity in the Western world that is not still influenced by the concepts and practices of the ancient Greeks and Romans, and there are many areas in which ancient achievements have never been equalled or surpassed. The study of classics enables us to see our own culture and traditions within a perspective which extends back almost 4,000 years.

Classics 1120

Elementary Latin I is an introduction to the grammar and syntax of Latin, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

Lectures: Four hours per week

Classics 1121

Elementary Latin II is a continuation of the work begun in Elementary Latin I.

Lectures: Four hours per week

Prerequisite: Classics 1120 or its equivalent.

Classics 1130

Elementary Ancient Greek I is an introduction to the grammar and syntax of ancient Greek, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

Lectures: Four hours per week

Prerequisite: Classics 1130 is a prerequisite for Classics 1131.

Classics 1131

Elementary Ancient Greek II is a continuation of the work begun in Elementary Ancient Greek I.

Prerequisite: Classics 1130 or its equivalent.

Classics 1050

Introduction to Greek and Roman Mythology is a survey of the principal myths and legends of the ancient Greeks and Romans. Attention will be paid to the literary and artistic representations of these myths, as well as to modern methods of interpretation.

Lectures: Three hours per week

Prerequisite: None

Classics

Classics 1100

Introduction to Greek Civilization is a general illustrated survey of the origins and evolution of Ancient Greek Civilization. The course introduces the student to Greek social and political institutions, religion and myth, and achievements in art, philosophy, science and literature, as well as the influence of Ancient Greece on the modern world.

Lectures: Three hours per week

Prerequisite: None

Note: This course may qualify as a research/writing course.

Classics 1200

Introduction to Roman Civilization is a general illustrated survey of the origins and evolution of Ancient Rome. The course introduces the student to social, political, and legal institutions, the growth of the Roman Empire, Roman art, literature, and religions, as well as Rome's pervasive influence in the modern world.

Lectures: Three hours per week

Prerequisite: None

Note: Students may not receive credit for Classics 1200 and any of Classics 1000, 1001 or 2001. This course may qualify as a research/writing course.

Notes:

1. Classics 1120/1121 and Classics 1130/1131 may be used as part of the bachelor of arts requirement of two courses in a second language.
2. Classics 1100 and Classics 1200 may qualify as research/writing courses for the Faculty of Arts.
3. Classics 1050, Classics 1100 and Classics 1200 may not be used as part of the bachelor of arts requirement of two courses in a second language.

COMPUTER SCIENCE

Virtually every discipline - practical, theoretical or creative - is experiencing the influence of computers. The ever-increasing dependence on computer technology in our daily lives presents rich opportunities for those interested in the design of new applications and systems. Computer science, the science of computing, provides a solid and rigorous foundation on which such systems and applications can be built.

The basis for virtually all of computer science is *abstraction* - creating a model for a problem, and finding appropriate algorithms which can be automatically applied to the solution of the model problem. This makes computer science fundamentally different from most other sciences, in that other sciences attempt to explain the world as it is. Computer scientists normally must abstract

relevant properties from a problem to construct a model of the problem which can be solved using a computer.

Computer Science Program Offerings and Admission Requirements

The Department of Computer Science, at the St. John's campus only, offers a wide range of programs, all of which are intended to be challenging, are dedicated to the evolution of computer science, and attempt to strike a balance between the study of hardware, software, theory and practice.

A student, either on entrance to Memorial University or after successful completion of the first year of studies, may declare his/her intent to

enter one of our computer science programs. For a majority of our program offerings, a student has the option of entering either the Faculty of Science or the Faculty of Arts, working towards a B.Sc. or BA degree, respectively. The computer science and mathematics course requirements are the same for students in either faculty, with the main differences being in the core requirements for each degree and the student's choice of electives at the more advanced level. Computer science general or honours degrees are offered in either faculty. A general degree provides the student with exposure to the theoretical and applied concepts of computer science which are standard in any computer science program. Students who continue on to the honours program have the opportunity to broaden and deepen their knowledge in computer science, and are exposed to research activity in the discipline, under the supervision of a faculty member. A minor in computer science is also available in either faculty.

Two specialized programs are also available to computer science majors. These programs are a B.Sc. (hon.) in computer science, software engineering option, and the computer industry internship option available for the major or honours (B.Sc. only).

Further information on programs offered by the department can be found at www.cs.mun.ca/.

Computer Science 1510

An Introduction to Programming for Scientific Computing introduces students to basic programming in the context of numerical methods with the goal of providing the foundation necessary to handle larger scientific programming projects. Numerical methods to solve selected problems from Physics, Chemistry, and Mathematics will be covered.

Lectures: Three hours per week

Laboratory: Two hours per week

Prerequisite: Mathematics 1000

Note:

1. Students who have received credit for the former Applied Mathematics 2120 cannot receive credit for Computer Science 1510.

Computer Science 1600

Basic Computing and Information Technology offers an overview of computers and information technology. It provides students with the knowledge necessary to answer questions, such as: What is a computer system? How does it work? How is it used? This is done through the use of popular spreadsheet, word processing and database software packages and the Internet. Social issues and implications will also be included.

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: Level III Advanced Mathematics or Mathematics 1090, which can be taken concurrently.

Notes:

1. Computer Science 1600 can be used as a science elective, and is open to any student at the university.
2. Computer Science 1600 cannot be used as part of the 12 credit hours in non-business electives required for admission, promotion or continuance in the B. Comm. (co-op), BBA or iBBA programs.

Computer Science 1700

Introduction to Computer Science lays the foundation for the art and the science of computing. The course contains fundamental and topical issues in computers, languages, programming and applications. This course is designed for potential Computer Science majors without a background in programming, but is also available for non majors.

Prerequisite/Co-requisite: Mathematics 1090 (or equivalent), or Mathematics 1000.

Lectures: Three hours per week.

Laboratory: Three hours per week.

Computer Science 1710

Object-Oriented Programming I is an introduction to fundamental programming techniques, primitive data types and operations, program control structures and the use of objects, classes and methods.

Prerequisites: Mathematics 1000 (which can be taken concurrently), or Mathematics 1090 (or equivalent).

Lectures: Three hours per week

Laboratory: Three hours per week

Notes:

1. Students who have previously completed Computer Science 2710 will not be permitted to register or receive credit for Computer Science 1710.
2. This is now the first required course for all computer science majors.

Computer Science 2710

Object-Oriented Programming II continues from Object-Oriented Programming I, and studies object-oriented and event-driven programming. Additional topics include: recursion, basic analysis

of algorithms, fundamental data structures such as simple linked structures and stacks, and fundamental computing algorithms such as binary search and quadratic time sorting. A brief overview of programming languages, virtual machines and language translations is also provided.

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: Computer Science 1710

Computer Science 2742

Logic for Computer Science is an introduction to propositional and predicate logic with applications. The use of the system of boolean logic in reasoning and circuit design, as well as basic proof techniques and the resolution principle, for both propositional and predicate logic, will be covered. Concepts involving sets will be used to illustrate different types of proof techniques. The probable intractability of boolean logic and Goedel's incompleteness theorem will be presented.

Lectures: Three hours per week

Prerequisite: Computer Science 1710

EARTH SCIENCES

Earth Sciences is the study of the Earth and its neighbours in space - it deals with the origin, composition and history of our planet as well as the physical, chemical and biological processes that have changed and shaped it over the past 4.5 billion years. Throughout history humankind has viewed the planet we live on from many perspectives. Ancient cultures were fascinated by our world and the role it played in their lives, but were limited by their terrestrial vantage point. Today, we routinely view images of the planet from space. Studies of the Earth's continents, oceans and atmosphere reveal a complex and yet fragile world. This view has propelled us into an extraordinary age of geoscientific research. Earth scientists commonly explore the formation of mountains, drift of the continents, sources of mineral and fossil fuel deposits and environmental hazards of an expanding human population. New

discoveries and theories in our understanding of planetary structure and function affect not only how we live but also how we relate to one another.

The goal of the introductory program at Memorial is to share the excitement of discovery by providing an overview of Planet Earth, its structure, its history and the role of earth sciences in resource and environment studies. Earth Sciences 1000/1002 provide a basic knowledge of the subject for the beginner and a foundation for those students intending to major in earth sciences. In addition, joint honours programs are offered in earth sciences/biology, earth sciences/chemistry, earth sciences/ geography, earth sciences/physics and geophysics/physical oceanography.

Earth Sciences 1000

Earth Systems is a survey of the structure, function and interrelations of Earth's lithosphere, hydrosphere, atmosphere and biosphere. Topics include an exploration of the physical and chemical properties of planetary materials, forces driving and sustaining Earth systems, and biological modifiers (including humankind) on the Earth today.

Lectures: Three hours per week

Laboratories: Three hours per week

Prerequisite: None

Earth Sciences 1002

Concepts and Methods in Earth Sciences provides an introduction to a broad range of concepts concerning the development of the geological record and the Earth; practical methods for collection of field based data; topics in map interpretation and geometric analysis, stratigraphy, paleontology, structure and petrology. The course is presented with an emphasis on the development of practical skills needed to pursue a career in Earth Sciences.

Lectures: Three hours per week

Laboratories: Three hours per week

Prerequisite: Earth Sciences 1000

Note:

This course is required for earth sciences majors, minors and all joint programs.

ECONOMICS

Economics is the study of how limited resources can be allocated to the production of goods and services, and how these goods and services can be distributed to satisfy the unlimited desires of individuals. For the student with a casual interest in economics, the introductory courses provide a simple yet insightful framework for understanding many of the economic phenomena we hear and read about each day. For the serious student of economics these courses provide the conceptual foundation of the more complex economic models developed in subsequent work. Economics gives us the analytical tools to understand questions such as how prices are determined, why some people are unemployed, why interest rates rise and fall, and why products are traded between nations. Economic analysis can be focussed on an enormous variety of questions: the fishery, petroleum production, forestry, unemployment, taxation, and economic growth are examples of particular relevance to our province. Graduates in economics can frequently find employment in governments, financial institutions and large corporations. In these capacities, economists are able to apply their unique analytical skills to understand the critical determinants of our material well-being.

Economics is usually divided into two general categories: microeconomics and macroeconomics. The former examines the markets for specific goods to determine how much will be produced and at what price they will be sold. The latter deals with total production in the economy, the overall price level, and the role of money. This division forms the basis of the two introductory courses. After defining such basic ideas as scarcity and opportunity cost, the introductory microeconomics course (2010) focuses on one of the fundamental components of economic analysis: the market. By examining consumer (household) preferences and behaviour, the demand for a particular commodity can be discovered. By examining production functions, the amount of a good that producers (firms) are willing to supply can be determined. The interaction of supply and demand establishes the price and quantity for the product to be traded in the market. Market equilibrium and adjustments are examined under a variety of structures including perfect competition (many sellers and buyers) and monopoly (only one seller).

The introductory macroeconomics course (2020) course begins with the definitions and

Economics

measurements of aggregate economic activity required for national income accounting, which is the calculation of such measures as gross national product (GNP). Most of the course focuses on the major components of aggregate expenditure in an economy: household consumption, investment, government spending, and international trade. These are used in the construction of a simple model to determine national income and the price level. This model is used to investigate topics such as inflation, unemployment, the role of money, government fiscal and monetary policy, and the balance of payments.

Economics 2010

Introduction to Microeconomics I examines scarcity and opportunity cost. Demand and supply. Elasticity. Household demand: marginal utility. Household demand: indifference curves. Production functions. Short-run and long-run cost functions. Perfect competition in the short run and the long run. Monopoly.

Lectures: Three hours per week

Economics 2020

Introduction to Macroeconomics is national income accounting, aggregate income analysis, money, banking and foreign trade.

Lectures: Three hours per week

Notes:

1. Economics 2010 and 2020 need not be taken in any specific order and may be taken concurrently.
2. They are prerequisites to all further courses in economics.

ENGINEERING

Engineering 1313

Mechanics I Statics with an Introduction to Dynamics is an Introduction to vector algebra. Coplanar and non-coplanar force systems, equivalent force systems, moments and equilibrium, emphasizing the use of free body diagrams. Analysis of trusses, frames and machines. Dry friction. Centers of gravity and centroids. Moments of inertia of areas. Geometric aspects of particle motion (kinematics).

Lectures: Four hours per week

Tutorial: One hour per week

Prerequisite: None

Engineering 2420

Structured Programming introduces simple programs and the programming environment. An introduction to computer architecture - hardware, instructions and data. The major control structures as building blocks for computer programs. Variables, constants and data types, representations, ranges and declarations. Simple input/output processes and data formatting. Strings. Functions, subroutines and the basic issues of modularity. Programming style. Sequential files.

Lectures: Three hours per week

Laboratory/Tutorial: One hour per week

Prerequisite: None

ENGLISH

The first-year English program offers students the opportunity to enrich their experience of literature through the close study of selected texts from the genres of poetry, drama, fiction and non-fiction.

The program also emphasizes essay-writing. Students are made familiar with the principles of analytical essays and with strategies for writing them. Written assignments are set frequently, and students are expected to pay close attention to their instructors' suggestions for improving content, organization and expression.

Non-native speakers entering Memorial will be tested by the Department of English and placed in one of the following courses: English 1080, English 1000, English 1020, English 102F.

English 1000

Introduction to English I (available only at Grenfell) is an introduction to English literature and to the use of the English language with a particular emphasis on composition.

Lectures: Three hours per week

Prerequisite: None

English 1001

Introduction to English II (available only at Grenfell) is a continuation of the studies begun in English 1000.

Lectures: Three hours per week

Prerequisite: English 1000 or 1050 or the former 1100.

English 1080

Critical Reading and Writing I is an introduction to such literary forms as poetry, short fiction, drama, and the essay. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, quoting and documenting, revising and editing.

Lectures: Three hours per week

Prerequisite: None

Note: Credit will not be given for both 1080 and 1000, 1050 or the former 1100.

Students who pass English 1080 will proceed to one of the following courses:

English 1101

Critical Reading and Writing II (Fiction) is a study of such forms as the novel, the novella, the story sequence. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

Lectures: Three hours per week

Prerequisite: English 1000 or 1020 or 1030 or 1050 or 1080 or the former 1100.

English 1102

Critical Reading and Writing II (Drama) is a study of drama. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

Lectures: Three hours per week

Prerequisite: English 1000 or 1020 or 1030 or 1050 or 1080 or the former 1100.

Note: English 1102 may not be used instead of English 2002 as a prerequisite for entry into the theatre-drama specialization within the major.

English 1103

Critical Reading and Writing II (Poetry) is a study of poetry. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

Lectures: Three hours per week

Prerequisite: English 1000 or 1020 or 1030 or 1050 or 1080 or the former 1100.

English 1110

Critical Reading and Writing II (Context, Substance, Style) is an examination of prose texts such as essays, articles and reviews. Students write for different purposes and audiences. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

Lectures: Three hours per week

Prerequisite: English 1000 or 1050 or 1080 or the former 1100.

Notes:

1. Students cannot receive credit for both 1110 and 2010.
2. Students cannot receive credit for both English 1020 and 1110; nor for both 1030 and 1110.

Courses for students whose first language is not English:

English 1020

Writing for Second Language Students I is an introduction to the use of English with emphasis on composition for non-native English-speaking students.

Lectures: Three hours per week

Prerequisite: English 102F or departmental English placement test.

Notes:

1. Admission to English 1020 will be determined on the basis of the departmental English Placement Test or successful completion of English 102F.
2. Students who successfully complete English 1020 may enter English 1021, 1080, 1101, 1102 or 1103. They may not enter English 1110.

English 1021

Writing for Second Language Students II develops skills in critical reading and writing of academic English, with emphasis on research and writing syntheses from sources, for non-native English-speaking students.

Lectures: Three hours per week

Prerequisite: English 1020

English 102F

Foundation English is a non-credit course designed for students whose first language is other than English and whose knowledge and use of English do not meet the standards for entry into the regular first-year English courses.

Lectures: Four hours per week plus one hour conversation class.

Laboratory: One hour per week

Notes:

1. English 1080 is a prerequisite for English 1101, 1102, 1103 or 1110. For non-native speakers, English 1020 is a prerequisite for 1021, 1080, 1101, 1102 or 1103.
2. One of the following combinations is a prerequisite for all other English courses: 1080 (or 1020 or 1030)/1101; 1080 (or 1020 or 1030)/1102; 1080 (or 1020 or 1030)/ 1103; 1080/ 1110; 1020/1080, 1080 (or 1020 or 1030)/1021.
3. Students cannot receive credit for more than one of English 1101, 1102, 1103 and 1110 or for both English 1020 or 1030 and 1110 or for 1110 and 2010.
4. Students cannot receive credit for more than one of English 1000/1080 or for more than one of 1001/1101/1102/ 1103/1110. Nor may students receive credit for more than two first-year English courses. (This includes unspecified first-year transfer credits.)

ENVIRONMENTAL SCIENCE

Environmental Science 1000

An Introduction to Environmental Science (available only at Grenfell) is an introduction to the study of the environment. Environmental

principles, issues and problems will be described and placed in a historical and societal context.

Lectures: Three hours per week

Prerequisite: None

ENVIRONMENTAL STUDIES

Environmental Studies 1000

An Introduction to Environmental Studies (available only at Grenfell) is an introduction to a variety of major issues in environmental studies through an examination of a range of case studies including both local problems, such as the impact

of outdoor recreation activities on the environment, and global threats, such as stratospheric ozone depletion.

Lectures: Three hours per week

Prerequisite: None

FOLKLORE

The field of folklore is concerned with the study of traditional artistic communication. A degree in folklore may lead to a career in areas such as heritage resources, research or journalism. Folklore is also a useful minor for majors in many disciplines, including English, anthropology, sociology, history and Canadian studies. Folklore majors can participate in the Canadian studies major program or in the Newfoundland studies minor program. Another useful option is the choice of folklore as a focus area for bachelor of education (primary/elementary) degree candidates.

Topics and genres of folklore include traditional forms of narrative, customs and beliefs, music and song, childlore, drama, religion, medicine, foodways, arts and crafts, occupational lore and architecture. Introductory courses are designed to acquaint the student with the content, performance and functions of tradition in its

cultural context. Teaching methods include lectures, sound recordings, visual presentations, fieldwork and collection projects.

Folklore 1000

Introduction to Folklore will discuss the role that tradition plays in communication, art and society through an examination of folklore materials from Newfoundland and the English-speaking world. Readings and "listenings" will emphasize the use of folklore in context, e.g., the proverb in speech and the folksong in childrearing. Students will be urged to analyze the traditions in their own lives through special assignments. A student may not receive credit for both Folklore 1000 and 2000.

Lectures: Three hours per week

Prerequisite: None

FRENCH

The French language is a thousand years old and has created one of Europe's greatest cultures. Much of the world's finest philosophy, cinema, history, science and literature is in French. French is one of Canada's official languages and is indispensable for anyone seeking a national career in any field.

A program of three first-year French courses is offered. The courses are designed to progress quickly from basic French to readiness for more advanced work at the second-year level. All three courses provide a balance of reading, writing, speaking and listening skills, and all three stress accuracy in written French.

Selection of a French course depends on a student's background and ability in French. Most new students may choose either French 1500 or 1501. Those with a limited background in French, and those wishing to review the basics, should begin with French 1500. Students with a stronger background, especially those wishing to progress more quickly to second year French, should begin with 1501. Students who are unsure of where to begin their study of French at the university level should consult the coordinator of first-year French, Dr. Scott Jamieson, at (709) 737-8578, scottj@mun.ca or the head of the French Department at (709) 737-7636 or french@mun.ca.

Students may not normally register concurrently for more than one of French 1500, 1501 and 1502.

French 1502 is reserved for students who have successfully completed French 1501 with a final grade of at least 60 per cent or who have a very strong background in French. Those who have not completed French 1501 will be required to obtain the permission of the head of the department to register for French 1502.

Students who have completed **French immersion** in high school with 80 per cent or more and students with an outstanding academic

record in extended or accelerated French should register for French 2100.

The Department of French and Spanish permits students to challenge for credit a maximum of two of the following courses: French 1500, 1501, 1502. Students who challenge these courses for credit will be evaluated in all four language skills (reading, writing, speaking, listening).

Notes:

1. Students whose native language is French may not challenge 1500, 1501 or 1502 for credit.
2. Students who attain a grade of less than 4 on the Advanced Placement examination in French language, and students who need to review material studied at the secondary level, should register for French 1502.

French 1500

Introductory University French I is a course for beginners and for students whose background in French is very weak. Permission to register for this course will not be given to students who have completed Français 3202 (High School French immersion).

Lectures: Three hours per week

Conversation/Language Laboratory: Two hours per week

Prerequisite: None

Notes:

1. Students may not receive credit for both 1500 and the former French 1010 or 1011.
2. For students completing French 1500 at the St. John's campus, grading of students' performance in this course will **not include the award of a specific numeric or letter grade**. Instead, students will be awarded either a **pass, pass with distinction** or a **fail** in the course. For this reason, performance in this course will not affect the calculation of the students' average.

3. This course is not appropriate for students who received a final grade of 80 per cent or higher in High School French 3200. Such students should complete French 1501 as their first university-level French course.

French 1501

Introductory University French II

Lectures: Three hours per week

Conversation/Language Laboratory: Two hours per week

Prerequisite: High school French 3200 or 3201 with a final grade of 80 per cent or permission of the head of the Department. Ex-immersion students should consult the head of the Department before registering for this course.

French 1502

Introductory University French III

Prerequisite: French 1501 with a grade of at least 60 per cent or by permission of the head of the Department.

Lectures: Three hours per week

Conversation/Language Laboratory: Two hours per week

Prerequisite: French 1501 with a final grade of at least 60 per cent or high school French 3201 with a final grade of 90 per cent or permission of the head of the Department.

Note: Students may use only **two** of these three courses towards the minimum requirements for a major or minor in French. They are encouraged to consult their adviser or instructor about possibilities for further study in French-speaking areas.

French 2100

Intermediate French I is a course on composition, grammar and practice in oral skills.

Lectures: Three hours per week

Prerequisite: High school French immersion with a final grade of 80 per cent or an exceptional background in French or completion of French 1502 with a final grade of at least 60 per cent.

Note:

Students who obtain a grade of less than 4 on the Advanced Placement examination in French language, and students who have received less than 80 per cent in French Immersion 3202 should register for French 1502 rather than French 2100.

GEOGRAPHY

Geography: putting place-names on a map? Yes, but geography today is much more than this. It is quite simple to record *where* a city or volcano is located; it is much more interesting to analyze and understand *why* the town or volcano is located where it is and not somewhere else.

Geographers interpret the landscape, both the physical, or natural, landscape and the human activity which takes place within it. Geography unites the physical and social sciences by focussing on the interaction of peoples with their environment. Geographers study this interaction from the viewpoint of spatial relationships and processes: What kinds of environments are there? Where do people live? Why do they live there? Do they modify the environment?

Geography 1050

Introduction to the Principles and Practice of Geography focuses on five areas of geography which continue through courses in other years of the geography program: physical, cultural, economic, resources, and geographic information sciences. The lectures are linked to assignments, which provide both experience in the application of geographical skills and develop insight into the presence of geography at both the local and global scales.

Note: Credit may not be obtained for 1050 and any of 1000, 1001, the former 1010, or the former 1011.

Lectures: Three hours per week

Prerequisite: None

Geography 1000

Introduction to Geography I (available only at Grenfell) is an introduction to Geography incorporating concepts, skills and techniques used by the geographer to understand the Earth as the home of man. The major emphasis of the course is placed on man-environmental ecological systems. The course will include seminars and practical work.

Lectures: Three hours per week

Prerequisite: None

Geography 1001

Introduction to Geography II (available only at Grenfell) is a continuation of introduction to basic concepts and techniques in the field of geography. This course emphasizes geography as a social science and introduces the sub-fields of political, economic, cultural and urban geography. The course will include seminars and practical work.

Lectures: Three hours per week

Prerequisite: Geography 1000

Note: Credit may not be obtained for both Geography 1001 and Geography 1011.

Geography 2001

Cultural Geography is an examination to the study of culture in geography, emphasizing both the history of the field from classic studies of landscapes to contemporary scholarship and themes of recent importance. These include the relationship between nature and culture: imperialism and colonialism; place, identity, and power; and global cultures of commodities, media, and tourism.

Lectures: Three hours per week

Prerequisite: Geography 1050, or 1011, or 1001

Geography 2102

Physical Geography: The Global Perspective is a study of form, process, and change in natural systems at and near the surface of Earth, viewed as human environment. Emphasis is on global and regional scales in the systematic study of climate, water, landforms and vegetation.

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: Geography 1050, or 1011, or 1001

Note: Credit may not be obtained for 2102 and the former 2100 or 2101.

Geography 2195

Introduction to Geographic Information Sciences is an introduction to the fields of cartography, remote sensing, and geographic information systems (GIS). Emphasis on the understanding and appreciation of maps and map-like images.

Lectures: Three hours per week

Prerequisite: Geography 1050, or the former 1011, or 1001

Geography 2302

Issues in Economic Geography covers basic issues and ideas in economic geography. The development of a regional economy will be related to underlying economic, cultural and physical factors.

Lectures: Three hours per week

Prerequisite: Geography 1050, or the former 1011, or 1001

Geography 2425

Natural Resources is an introduction to the concepts of natural resources, environment and conservation: the nature and distribution of natural resources; methods of use, allocation and development of natural resources and the role of various physical, social, economic, political and technological factors influencing decision-making about resources.

Lectures: Three hours per week

Prerequisite: Geography 1050, or the former 1011, or 1001

Note: Credit may not be obtained for both Geography 2425 and 3325.

GERMAN

German is the first language of over 100 million people in Germany, Austria, Switzerland, and other countries. In recent years, and especially since the reunification of East and West Germany, German is used increasingly as a second and third language, because of its significance as a language of business, science and technology. Next to English, it is the most frequently studied language in the world. Over the last century three major bodies of modern Western literature and art have developed: in English (a Germanic language), French and German. The influence of German thought on Western civilization and culture, particularly in subjects such as philosophy, psychology, theology, history and music, has been considerable. Students in many fields of learning, therefore, find a knowledge of German not only useful but essential.

German 1000

Elementary German I is a course intended to give beginners a basic knowledge of the spoken and written language and culture of the German-speaking countries.

Lectures: Three hours per week

Laboratory: One hour per week

German 1001

Elementary German II is a continuation of Elementary German I with the same basic text.

Lectures: Three hours per week

Laboratory: One hour per week

Prerequisite: German 1000

German 1002

Elementary Business German I is a course intended to give beginners a basic knowledge of spoken and written German with an emphasis on developing skills pertinent to business and commerce.

Lectures: Three hours per week

Laboratory: One hour per week

German 1003

Elementary Business German II is a continuation of Elementary Business German I with the same basic text.

Lectures: Three hours per week

Laboratory: One hour per week

Prerequisite: German 1002

Notes:

1. Credit will not be given for both German 1000 and 1002, nor German 1001 and German 1003.
2. A number of courses may be of interest to incoming students. They require no prerequisites, the language of instruction is English throughout and they cover German culture and literature: German 2900, 2901, 3000 and 3001. These courses may not be used as part of the bachelor of arts requirement of two courses in a second language.
3. German 2900 and 2901 may qualify as research/writing courses for the Faculty of Arts.

HISTORY

“To know yourself, know history” (Auguste Comte). Everything we see around us of human construction, from constitutions to popular culture, is a product of our history. Our first-year courses are all research/writing courses designed to provide a foundation for your university studies, understand the past, and appreciate the world we live in.

History 1010

The North Atlantic in the Age of Expansion, 1492-1776 is a thematic examination of European imperial expansion into the North Atlantic and the Americas, starting with the discoveries of Columbus and concluding with American Independence. This course qualifies as a research/writing course.

Lectures/Discussion Groups: Three hours per week

Prerequisite: None

History 1011

Europe and the Wider World, 1750-1914 is a thematic examination of the political, economic, social and cultural developments in Europe and the wider world from the French Revolution to World War I. This course qualifies as a research/writing course.

Lectures/Discussion Groups: Three hours per week

Prerequisite: None

History 1012

The World in the 20th Century will examine some of the major themes in world history since 1914. This course qualifies as a research/writing course.

Lectures/Discussion Groups: Three hours per week

Prerequisite: None

History 1013

Issues in Canadian History will examine the historical context for various contemporary problems being experienced by Canadians. This course qualifies as a research/writing course.

Lectures/Discussion Groups: Three hours per week

Prerequisite: None

History 1014

Issues in United States History will examine several historical themes or problems in the history of the United States. This course qualifies as a research/writing course.

Lectures/Discussion Groups: Three hours per week

Prerequisite: None

History 1015

Ideas and Society in the West introduces students to early modern western history (1500 - 1800) through the study of original texts. It will combine lectures on the historical background to the texts, discussion of them and analysis of their meanings in assigned essays. This course qualifies as a research/writing course.

Lectures/Discussion Groups: Three hours per week

Prerequisite: None

HUMAN KINETICS AND RECREATION

HKR 1000

Fitness and Wellness is an introduction to the concepts of fitness and wellness, and the relationships among physical activity, fitness, wellness, quality of life, and longevity.

Lectures: Three hours per week

Prerequisite: None

Note: This course is not applicable towards any of the degrees offered by the School of Human Kinetics and Recreation.

HKR 1001

Resistance Training for Health and Activity is an introduction to resistance training exercises, programs, and principles. This will necessitate both theoretical classes and practical laboratories that will involve testing and participation in resistance training activities. A portion of the assessment will also be based on regular attendance (at student convenience) for another hour of resistance training per week certified by the attending fitness consultant.

Lectures: Three hours per week

Laboratory: Two hours per week

Prerequisite: None

Note: This course is not applicable towards any of the kinesiology or physical education degrees offered by the school.

HKR 1123

Professional Development Seminars are offered during the Fall semester prior to a student's first work term. These seminars introduce the co-operative education process and prepare the student for work terms. These seminars are graded PAS or FAL based on attendance and participation.

Lectures: Two hours per week

Prerequisite: None

Note: Attendance is required.

HKR 2000

Introduction to Physical Education, Recreation and Kinesiology introduces the philosophical, scientific, socio-cultural, historical concepts, and influences in kinesiology, physical education, and recreation.

Lectures: Three hours per week

Prerequisite: None

HKR 2100

Introduction to Organization and Administration introduces the basic administrative functions in a work setting in physical education and/or recreation. The laboratory sessions will assist students to develop skill in the basic computer applications relevant to these functions.

Lectures: Three hours per week

Laboratory: Two hours per week

Prerequisite: None

HKR 2300

Growth and Development is an introductory study of human growth and developmental factors and their influence on the learning of motor skills.

Lectures: Three hours per week

Prerequisite: None

ITALIAN

Many musical terms are Italian words and most operas are in Italian. Many of the world's greatest visual artists were Italian. Courses in Italian may be of interest to music students and art history students. Italy is also a centre of research in biochemistry and has one of the most vibrant economies in Europe. Science and Business students may also be interested in learning Italian.

Italian 1000

Elementary Italian I is for beginners in Italian. Introduction to the fundamentals of Italian grammar, with particular attention to the

acquisition of basic skills in oral and written communication.

Lectures: Four hours per week

Laboratory: One hour per week

Prerequisite: None

Italian 1001

Elementary Italian II is a continuation of Elementary Italian I.

Lectures: Four hours per week

Laboratory: One hour per week

Prerequisite: Italian 1000

LINGUISTICS

Linguistics examines the nature of language and communication. Since language is so basic to human beings, the questions that linguists find worthwhile are related to almost all fields of study. By investigating how language is organized at the level of sounds, words, phrases, sentences and meaning, linguists hope to come to a better understanding of the special mental and physical endowment that humans possess which enables them to learn and use language as a medium of communication. Seen in this way, the study of the human language is, in the end, the study of the human mind. Speech therapists, language teachers, educators, lawyers, psychologists, social scientists, mathematicians, engineers, computer scientists and students of literature are among those who find different aspects of linguistics useful in their professions.

Linguistics 1100

Language and Communication is a general and non-technical introduction to linguistic concepts which are important for understanding the nature of language, its change and its function for communication. Topics include: languages as structured systems; the systematicity of language change; the classification of languages into families and their geographical distribution; language, the

brain, and language disorders; the acquisition of language; and human vs animal communication. (Intended for first-year students.)

Lectures: Three hours per week

Prerequisite: None

Note: Credit may not be obtained for both Linguistics 1100 and 2100.

Linguistics 1103/2103

Introduction to Linguistics: Morphology and Syntax is an introduction to the study of the meaningful components of words and sentences. This course will demonstrate the principles by which parts of words are organized into larger units (inflectional morphology and word-formation), and by which words pattern into phrases and sentences (syntax). Synchronic and diachronic data from English and several other languages will be analysed to illustrate how language is structured.

Lectures: Three hours per week and one hour tutorial.

Prerequisite: None

Note: Credit may not be obtained for both Linguistics 1103 and 2103.

Linguistics 1104/2104

Introduction to Linguistics: Phonetics and Phonology is an introduction to the sounds of speech, their description (phonetics), organization (phonology), and interactions with morphology (morphophonology). The synchronic and diachronic patterns and regularities of language will be demonstrated through analysis of data selected from English and other languages.

Lectures: Three hours per week and one hour tutorial

Prerequisite: None

Notes:

1. Credit may not be obtained for both Linguistics 1104 and 2104.
2. First-year students may also do the following introductory courses without any prerequisites:
 - Ling. 2060 Aboriginal Languages of Eastern Canada
 - Ling. 2210 Language in Newfoundland and Labrador: An Introduction to Linguistic Variation
 - Ling. 2105 The Wonder of Words

MATHEMATICS

Mathematics plays an increasingly greater variety of roles in modern society. At the university level, mathematics provides technical know-how in diverse areas, e.g., economics, engineering, physics, biology, chemistry, psychology and computer science. It is also a desirable prerequisite for almost any area of learning since it can serve as an extremely effective tool for training in logical reasoning. First-year courses attempt to prepare students for study in these areas as well as for further study in mathematics and statistics. First-year mathematics courses fall into two streams: Mathematics 1050/1051, a non-calculus stream for students who neither require nor wish to study calculus, and for prospective teachers in primary and elementary education; and Mathematics 1090, 1000 and 1001, courses in a calculus stream designed to prepare students for the study of sciences and further mathematics.

The mathematics placement test (MPT) will be administered for all students attending the St. John's campus (with some exceptions) entering 1000-level courses to ensure that the pupils' choice of courses is consistent with their level of mathematical preparation.

At Grenfell a placement test in Mathematics will be administered for all students entering Mathematics 1000. Students who are not eligible to register for Mathematics 1000 may select Mathematics 1090 or 1050 or 1051.

The items on the placement test are a subset of the items tested on the diagnostic mathematics assessment (DMA), which was developed by the Department of Education after consultation with the Department of Mathematics to give high school students an opportunity to assess their likely performance on the MPT. They are given a test that is similar in nature and difficulty, and is to be taken without using a calculator. If you have not already taken the DMA and you wish to attend Memorial, you should do so. If you have already taken it, your score should be similar to the one you would obtain on the placement test.

If the score you obtained on the DMA is less than the score shown in the table at the end of this section, you may find that you will not obtain an MPT score that would grant you direct access to the course of your choice. However, in consultation with your teacher, you can use the results on the DMA to upgrade your skills so that when you take the MPT, you achieve the required entry score for the course of your choice. Also, completion of Mathematics 3103 should improve your MPT score.

Students with a score of 3, 4 or 5 on the standardized Advanced Placement Calculus AB examination may receive transfer credit for Mathematics 1000 and enter Mathematics 1001 directly. On the St. John's campus there are also Mathematics 102/103/104F for students with deficiencies in their knowledge of mathematics (see Mathematics Learning Centre, page 18).

Mathematics

The table below lists the requirements for entry into each first-year mathematics course for the St. John's campus.

MUN Course	Newfoundland and Labrador HS Course Completed	Acceptable MPT Score
1001	Advanced Placement Calculus with grade of 3 or better	N/A
1000	International Baccalaureate	N/A
	3201	N/A
	3204	≥ 85
	3205	≥ 75
1090	3204 or 3205	≥ 55
1050 or 1051	3204 or 3205	≥ 50

Mathematics 1000

Calculus I is an introduction to differential calculus including exponential, logarithmic and trigonometric functions.

Lectures: Four hours per week (At Grenfell, three hours of lectures and a one and one-half hour laboratory per week.)

Prerequisite: Math 1090 or a combination of placement test and high school mathematics scores acceptable to the department.

Note:

Effective winter 2000, the credit restriction between Mathematics 1000 and the former 1080 has been lifted. However, credit cannot be obtained for both Mathematics 1000 and the former 1081.

Mathematics 1001

Calculus II is an introduction to integral calculus with applications.

Lectures: Three hours per week

Laboratory: One and a half hours per week

Prerequisite: Mathematics 1000 or 1081.

Note: Credit cannot be obtained for both Mathematics 1001 and either the former Engineering 1411 or the former Engineering 2413.

Mathematics 1050

Finite Mathematics I covers topics which include sets, logic, permutations, combinations and elementary probability.

Lectures: Four hours per week

Prerequisite: A combination of placement test and high school mathematics scores acceptable to the department or Mathematics 103F is required at the St. John's campus. At Grenfell, successful completion of Level III academic mathematics or advanced mathematics.

Notes:

1. With the exception of those already admitted at the time of registration in this course to a B.Ed. program that requires this course, students who already have obtained credit for six or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course nor can they receive credit for it.
2. Credit cannot be obtained for Mathematics 1050 and the former 1150.

Mathematics 1051

Finite Mathematics II covers topics which include elementary matrices, linear programming, elementary number theory, mathematical systems and geometry.

Lectures: Four hours per week

Prerequisite: A combination of placement test and high school mathematics scores acceptable to the department or Mathematics 103F (St. John's campus). At Grenfell, successful completion of Level III academic mathematics or advanced mathematics.

Mathematics 1090

Algebra and Trigonometry provides students with the essential prerequisite elements for the study of an introductory course in calculus. Topics include algebra, functions and their graphs, exponential and logarithmic functions, trigonometry, polynomials, and rational functions.

Lectures: Four hours per week. (At Grenfell, three hours of lectures and a three-hour laboratory per week.)

Prerequisite: A combination of placement test and high school mathematics scores acceptable to the department (St. John's campus) or Mathematics 104F. At Grenfell, successful completion of Level III academic mathematics or advanced mathematics.

Note: Students will not receive credit for Mathematics 1090 if they have previously received credit or are currently registered for Mathematics 1000, 1001, the former 1080, or the former 1081.

Notes:

1. With the exception of those already admitted at the time of registration in this course to a B.Ed. program that requires this course, students who already have obtained credit for six or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course nor can they receive credit for it.
2. Credit cannot be obtained for Mathematics 1051 and the former 1151.

Mathematics 2050

Linear Algebra I includes the topics: Euclidean n -space, vector operations in 2- and 3-space, complex numbers, linear transformations on n -space, matrices, determinants, and systems of linear equations.

Lectures: Three hours per week

Prerequisite: Mathematics 1000 or six credit hours in first year Mathematics courses.

Mathematics 102F/103F/104F

Mathematics Skills Program are non-credit courses intended for those students who either have a weak background in mathematics or are returning to the subject after some years. The program enables students to master mathematical operations such as those involving whole numbers, fractions, decimals, integers, exponents, linear equations, algebraic and rational expressions, formulas, graphs, systems of linear equations, basic trigonometry, exponents and radicals, and quadratics.

Tutorial Sessions: Three hours per week

Testing Sessions: Approximately every other week

Prerequisite: None

Notes:

1. Mathematics 1000 is available for direct entry to students who have taken Advanced Mathematics 3201, or IB Standard Math in high school. Students from high school Mathematics 3205 who obtain an acceptable score on the MPT may take Mathematics 1000. All other students requiring calculus should take Mathematics 1090. If a student does not meet the requirements for entry to Mathematics 1090, the appropriate preparatory course is Mathematics 102F.
2. Mathematics 1050 and 1051 can be done in either order. Mathematics 1050 is not a prerequisite for Mathematics 1051.
3. Mathematics 1050/1051 can lead to a minor in mathematics.
4. Students who have successfully completed Advanced Placement Calculus and obtain a score of 3, 4 or 5 on the AP Calculus AB exam will be given credit for Mathematics 1000 automatically on receipt of AP grades by the Registrar's Office. These students are advised to register for Mathematics 1001 at Memorial. For information on credit for Mathematics 1000, students should contact the Admissions Office at Memorial.
5. Transfer students who have queries regarding the prerequisite for Mathematics 1090 or 1000 are strongly advised to contact the Department of Mathematics and Statistics at (709) 737-8914 or Division of Science at Grenfell at (709) 637-6247.
6. Harold Johnson of the Department of Mathematics and Statistics is available to answer questions about math courses during regular business hours in office number HH-3004. The e-mail address is hjohnson@math.mun.ca and the telephone number is (709) 737-8914.
7. For a Synopsis and Examples Representative of the Math Placement Test, please see Appendix "D" of this *Guide*.

MEDIEVAL STUDIES

Medieval Studies 2000

The Cultural Legacy of the Middle Ages will survey the formative cultures of the Middle Ages - Latin, Celtic, Arabic - as well as the rise of the new vernacular cultures, Germanic and Romance. Literary trends such as the reliance on authority, the emergence of national epic and the

development of court literature will be studied. The course examines the interplay of all the arts - literature, music, art and architecture.

Lectures: Three hours per week

Prerequisite: None

MUSIC

Music is one of the most important components of modern life, entering our lives in many ways: through radio and television, movies, recordings, computer games, even elevators and restaurants. The study of music can be approached in several ways. University courses in music tend to be grouped into three categories: music theory (including composition), music history, and applied music (performance). Courses in applied music are available only to students in the bachelor of music program, while courses in music theory and music history may be taken by students in any program.

Courses in music history develop an understanding of music from cultural, social and historical perspectives. These courses introduce you to many kinds of music, and help you recognize the features that distinguish different musical styles and periods.

Courses in music theory develop an understanding of the language of music, through its notation and structure. In music theory courses you learn how to read and write music, and discover how musical elements such as timbre, melody, rhythm and harmony are put together to make musical compositions. Courses in aural skills also develop critical listening and sight-singing skills.

Courses in applied music develop the individual student's potential for musical expression and performance. These courses develop your technical competence, musical understanding, and creativity so that you can prepare your own interpretations of music in a variety of styles.

The following music courses are available to students who have not been admitted to the School of Music, and are appropriate for students with little or no musical background:

Music 1116

Basic Musicianship is an introduction to sight-singing and dictation for students whose level of preparation is not adequate for Music 1117.

Note: Credit for this course may not be applied to the Bachelor of Music degree.

Lectures: Two hours per week

Prerequisite: None

Credit Hours: One

Music 1120

Rudiments I is an introductory course in music rudiments and theory. Development of aural skills is emphasized.

Note: Credit for this course is not applicable to the bachelor of music degree.

Lectures: Three hours per week

Prerequisite: None

Credit Hours: Three

Music 2011

North American Popular Music is a survey of the major genres of North American popular music from the beginning of the 20th century to the 1970s. The course has three organizing themes: 1) the influence of Euro-American musics, African-American musics, and Latin American musics on popular music, 2) the relationship between popular music, capitalism, and technology, 3) popular music as a medium for the portrayal of identity. This course has a strong listening component. The ability to read music is not required. **Note:** Credit for this course may not be applied to the Bachelor of Music degree.

Lectures: Three hours per week

Prerequisite: None

Credit Hours: Three

Music 2012

Understanding Classical Music: Introduction Through Guided Listening is a course designed to enhance and develop listening skills and an understanding of the basic elements of music. Form and style in Western classical music will be explored within a cultural and historical context. Through guided listening, the student will be exposed to a variety of musical styles and traditions. This course has a strong listening component. The ability to read music is not required.

Lectures: Three hours per week

Prerequisite: None

Credit Hours: Three

Music 2013

20th-Century Musicals is a survey on 20th-century musical theatre. Selected works, presenting different styles and periods, will be examined in detail. There will be a strong, required listening/viewing component to this course. The ability to read music is not required. Music 2013 cannot be taken for credit by students enrolled in the bachelor of music program.

Lectures: Three hours per week

Prerequisite: None

Credit Hours: Three

Notes:

1. Credit for this course may not be applied to the Bachelor of Music degree.

2. Credit can be received for only one of Music 2013, 3007, or English 2013.

Music 2014

Introduction to World Music provides an introduction to the musics of selected cultures and contemporary intercultural communities. Drawing on topics and issues in ethnomusicology, it focus on musical practices, beliefs, and techniques. It is intended to develop listening skills, broaden musical horizons, as well as to enable a deeper understanding of the way music functions in relation to social groups and individual lives.

Lectures: Three hours per week

Prerequisite: None

Credit Hours: Three

The following large ensemble courses are available to non-music majors with appropriate background, subject to the approval of the instructor:

Music 2611

Festival Choir requires three hours rehearsal per week. Attendance is required.

Prerequisite: Audition for ensemble director. Contact the School of Music.

Credit Hours: One

Music 2612

Chamber Choir requires three hours rehearsal per week. Attendance is required.

Prerequisite: Audition for ensemble director. Contact the School of Music.

Credit Hours: One

Music 2613

Chamber Orchestra requires three hours rehearsal per week. Attendance is required.

Prerequisite: Audition for ensemble director. Contact the School of Music.

Credit Hours: One

Music 2614

Concert Band requires three hours rehearsal per week. Attendance is required.

Prerequisite: Audition for ensemble director. Contact the School of Music.

Credit Hours: One

Music

Music 2615

Jazz Ensemble requires three hours rehearsal per week. Attendance is required.

Prerequisite: Audition for ensemble director. Contact the School of Music.

Credit Hours: One

Music 2616

Opera Workshop requires three hours rehearsal per week. Attendance is required.

Prerequisite: Audition for ensemble director. Contact the School of Music.

Credit Hours: One

The following courses are available to students at all levels in the university without prerequisite, but with permission of the Director of the School of Music:

Music 2021

Newfoundland and Labrador Folksinging is an introduction to the sociocultural contexts, functions and meanings of folksong in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral and scholarly histories, the course offers practical instruction by a tradition-bearer in the singing of traditional Newfoundland and Labrador tunes and texts, using the techniques of aural transmission and assisted by the written medium where appropriate.

Lectures: Three hours per week

Credit Hours: Three

Note: No more than three credits from the 2021-2023 series may be applied toward the Bachelor of Music degree as unspecified music electives.

Music 2022

Newfoundland and Labrador Fiddling is an introduction to the sociocultural contexts, functions and meanings of fiddling in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral histories, the course offers practical instruction by a tradition-bearer on the fiddle, using the techniques of aural transmission and assisted by the written medium where appropriate.

Lectures: Three hours per week

Prerequisite: Permission of the director

Credit Hours: Three

Note: No more than three credits from the 2021-2023 series may be applied toward the Bachelor of Music degree as an unspecified music elective.

Music 2023

Newfoundland and Labrador Accordion is an introduction to the sociocultural contexts, function and meanings of accordion music in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral histories, the course offers practical instruction by a tradition-bearer on the button accordion, using the techniques of aural transmission and assisted by the written medium where appropriate.

Lectures: Three hours per week

Prerequisite: Permission of the director

Credit Hours: Three

Note:

No more than three credits from the 2021-2023 series may be applied toward the Bachelor of Music degree as an unspecified music elective.

Some courses in music history and music theory are available to non-music majors who have fulfilled the prerequisites. Please note that spaces in these classes are made available to non-B.Mus. students only after all B.Mus. students have registered. These may include:

Music 1002

Music History I is an intensive survey, through selected compositions, of the development of musical styles in Europe from ancient times to the end of the medieval period. This course will introduce the student to the terms, names and dates of music history, to stylistic analysis of specific works through musical scores and recordings, and to methods for expressing historical concepts. This course has strong listening and writing components.

Lectures: Three hours per week

Prerequisite: Music 1120 or successful completion of the theory placement test or admission to the B.Mus. degree program.

Credit Hours: Three

Music 1003

Music History II is a continuation of Music 1002. An intensive survey, through selected compositions, of the development of musical styles in Europe in the Renaissance and Baroque periods. This course has strong listening and writing components.

Lectures: Three hours per week

Prerequisite: Music 1002

Credit Hours: Three

Music 1107

Materials & Techniques of Music I is the study of the basic materials of the common-practice period, including a review of rudiments with emphasis on building an understanding of the underlying concepts involved; introduction to melody writing; introduction to voice-leading with emphasis on chorale style; analysis and composition of smaller formal elements.

Lectures: Three hours per week

Prerequisite: Music 1120 with a minimum mark of 75 per cent or successful completion of the Theory Placement Test.

Corequisite: Music 1117

Credit Hours: Three

Note: Credit may not be obtained for more than one of Music 110A, 1107 and 1113.

Music 1108

Materials & Techniques of Music II is a continuation of Music 1107. Harmonic vocabulary is expanded to include all diatonic triads and seventh chords, with an introduction to chromatic harmony; beginning study of writing for keyboard and band/orchestra instruments; analysis and composition of small binary and ternary forms, introduction to jazz harmony.

Lectures: Three hours per week

Prerequisite: Music 1107

Credit Hours: Three

Note: Credit may not be obtained for more than one of Music 110B, 1108 and 1114.

<p>The following courses are restricted to students admitted to a program in the School of Music:</p>
--

Music 1127

Keyboard Harmony I is an introduction to practical keyboard harmony skills. Students whose principal applied study is not a keyboard instrument may not receive credit for this course.

Lectures: One hour per week

Prerequisite: Successful completion of the Piano Proficiency Test.

Prerequisite/Corequisite: Music 1107

Credit Hours: 0

Music 1128

Keyboard Harmony II is a continuation of Music 1127. Students whose principal applied study is a keyboard instrument may not receive credit for this course.

Lectures: One hour per week

Prerequisite: Music 1107, Music 1127

Credit Hours: One

Music 1137

Advanced Keyboard Harmony I is keyboard harmony skills for keyboard players. For students whose principal applied study is a keyboard instrument. Others by permission of the Director.

Lectures: One hour per week

Prerequisite/Corequisite: Music 1107

Credit Hours: 0

Music 1138

Advanced Keyboard Harmony II is a continuation of Music 1137. For students whose principal applied study is a keyboard instrument. Others by permission of the Director.

Lectures: One hour per week

Prerequisite: Music 1107, Music 1137

Credit Hours: One

Music 140 A/B

Applied Study requires one hour per week of individual instruction (vocal or instrumental). Required attendance at School of Music recitals.

Lectures: One-hour private lesson per week

Prerequisite: Music 140A is a prerequisite for Music 140B.

Corequisite: Music 2611

Credit Hours: Four over two semesters

NURSING

Nursing 1002

Anatomy and Physiology I presents a survey of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of nursing. Special emphasis is given to the skeletal, muscular, nervous and endocrine systems.

Lectures: Three hours per week

Laboratory: Two hours per week

Prerequisite: None

Nursing 1003

Developing Therapeutic Relationships focuses on the application of caring theory to interpersonal communications. It emphasizes the development of the role of communicator in individual and group experiences and in professional relationships. Utilizing an experiential model, laboratory experiences focus on self-awareness and group dynamics.

Lectures: Three hours per week

Laboratory: Two hours per week

Corequisite: Nursing 1004

Nursing 1004

Introduction to Nursing introduces the major concepts and theories related to the paradigm of person, health, society, nursing, environment, and nursing education in relation to the philosophy, conceptual framework and objectives of the program. Emphasis is placed on the concept of caring as the essence of nursing practice.

Lectures: Three hours per week

Prerequisite: None

Nursing 1012

Anatomy and Physiology II presents a survey of anatomy and physiology throughout the lifespan. It includes aspects of cytology, histology and embryology that form a foundation for the practice of nursing. Special emphasis is given to the circulatory, respiratory, urinary, digestive, and reproductive systems, including pregnancy and delivery.

Lectures: Three hours per week

Laboratory: Two hours per week

Prerequisite: Nursing 1002

Nursing 1014

Health Assessment focuses on the development of competencies needed to assess the health status of individuals throughout the lifespan using a systematic approach. Content includes the nurse's responsibilities for health history, physical examination, interpretation of findings, and documentation.

Lectures: Three hours per week

Laboratory: Two hours per week

Corequisite: Nursing 1012

Nursing 1015

Health Promotion throughout the Lifespan explores nursing concepts and theories pertaining to health promotion/protection throughout the lifespan. Content includes principles of teaching/learning, introduction to community health and primary health care concepts and the determinants of health.

Lectures: Three hours per week

Laboratory: Twenty four hours during the course

Prerequisite or Corequisite: Psychology 1000, Nursing 1003, Nursing 1004

Nursing 1016

Healthy Aging will explore, in-depth, concepts and issues applicable to the well older adult (65+). Selected theories, physical changes, and psychosocial, ethical, and legal issues associated with aging will be presented.

Lectures: Three hours per week

Prerequisite: 1002, 1003 and 1004

Corequisite: Nursing 1012, 1014 and 1015

Nursing 1017

Fundamental Psychomotor Competencies will provide the student an opportunity to acquire beginning psychomotor competencies that are related to the provision of client comfort and safety in a variety of settings. As well, this course provides the opportunity for the student to integrate the conceptual framework of the Bachelor of Nursing (Collaborative) program into the development of psychomotor competencies.

Lectures: None

Laboratory: Two hours per week

Prerequisite or Corequisite: Nursing 1003 and 1004

Nursing 1520

Extended Practice I provides the student with the opportunity to integrate the knowledge and practise the competencies acquired to date. The focus is the promotion, protection and maintenance of health for well individuals within the context of the family. This course is taught at the end of the winter semester, usually beginning during the final week of the examination period.

Clinical: 96 hours over three weeks

Prerequisite or Corequisite: Nursing 1012, 1014, 1015, 1016, 1017.

Biochemistry 1430

Biochemistry for Nurses is an introduction to the chemistry and structure-function relationships of carbohydrates, lipids and proteins. It will examine the basic metabolism of carbohydrates and fats, with emphasis on the biochemical fluctuations that occur in human health and disease, and will include a brief introduction to molecular genetics. This course may not be used for credit to fulfil the requirements for a major in the Department of Biochemistry. Entry into this course is restricted to students in the BN (Collaborative) Program. Prospective fast-track program students should consult with the School of Nursing concerning admission to this course.

Prerequisite: Level 3 Chemistry or Chemistry 1010 or Chemistry 1810 or equivalent.

Lectures: Four hours per week

Note: Credit may be obtained for only one of Biochemistry 1430 and the former 2430.

PHILOSOPHY

Philosophical problems arise in our concern for social issues, in the views we hold of the meaning and purpose of our lives, in the positions we take on political and moral questions, in the ideas we have of such things as freedom, conscience, god, the world, ourselves. They live below the surface of all our truly human actions. It is the task of philosophy to provide a means of becoming acquainted with these basic human issues, and to learn to reflect on them intelligently.

Philosophy 1200

Introduction to Philosophy is a general introduction to the study of Philosophy both as a contemporary intellectual discipline and as a body of knowledge. The course covers the main divisions, fundamental questions and essential terminology of Philosophy through a reading of classical texts. (It is a required course for further courses in Philosophy programs. It is intended for students in first year who have completed one semester of university education).

Lectures: Three hours per week

Prerequisite: None

Philosophy 1600

Philosophy of Human Nature is an approach to philosophical thinking by way of analysis and critique of theories of human nature, classical and modern, and the world views associated with them.

Lectures: Three hours per week

Prerequisite: None

Notes:

1. Philosophy 1200 and 1600 **may** qualify as research/writing courses for the Faculty of Arts. Each semester students should verify that the course section being offered is a designated research/writing course.
2. Students may take either 1200 or 1600, or both, and in whichever order they prefer. Philosophy 1200 is the prerequisite for most further courses in philosophy.

PHYSICS

Through physics we attempt to understand natural physical phenomena in the world around us, from the very small (atomic nuclei and elementary particles) to the very large scale of the universe. The core of physics is a knowledge of basic laws laid down in fundamental theories such as those of kinematics, dynamics, relativity, electricity, magnetism, light, thermodynamics, quantum mechanics and nuclear and elementary particles. Physics is concerned with how these fundamental laws influence observed phenomena which might include anything from hitting a baseball with a bat to rocket dynamics. **There are two streams in first-year physics** at Memorial: one uses calculus; the other algebra. The calculus based courses (Physics 1050/1051) are intended for students with more experience in physics. The algebra based courses (1020/1021) can be taken by students with a limited physics background. Physics 1050 and 1051 are recommended for students planning studies in the physical sciences or engineering. Physics 1020 and 1021 are recommended for students planning studies in the life sciences. Students interested in physical sciences but who do not meet the prerequisites for Physics 1050 can take the course sequence Physics 1020, 1021, 1051. However, any student receiving a grade of 65 per cent or higher in Physics 1020 can proceed directly into Physics 1051. **Tutorial assistance is available to students in all introductory courses.** The Physics Help Centre is open 9 a.m. - 5 p.m. Monday to Friday.

Physics 1020

Introductory Physics I is a non-calculus based introduction to mechanics.

Prerequisite: Level III Advanced Mathematics or Mathematics 1090. Mathematics 1090 may be taken concurrently. It is recommended that students have completed at least one of level II and level III high school physics courses, however, this course may be completed by someone who has no physics background provided some extra effort is made.

Lectures: Three hours per week

Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of three hours.

Tutorials: Optional tutorials will be available, on average one hour per week.

Physics 1021

Introductory Physics II is a non-calculus based introduction to fluids, wave motion, light, optics, electricity and magnetism.

Prerequisites: Physics 1020 or 1050 and Mathematics 1000. Mathematics 1000 may be taken concurrently.

Lectures: Three hours per week.

Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of three hours.

Tutorials: Optional tutorials will be available, on average one hour per week.

Note: Credit can be obtained for only one of Physics 1021, 1051 and 1061.

Physics 1050

General Physics I: Mechanics is a calculus-based introduction to mechanics. The course will emphasize problem solving.

Prerequisite: Mathematics 1000, which may be taken concurrently.

Lectures: Three hours per week

Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of three hours.

Tutorials: Optional tutorials will be available, on average one hour per week.

Physics 1051

General Physics II: Oscillations, Waves, Electromagnetism is a calculus-based introduction to oscillations, wave motion, physical optics and electromagnetism.

Prerequisites: Physics 1020 (with a minimum grade of 65 per cent) or 1050, and Mathematics 1001. Mathematics 1001 may be taken concurrently.

Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of three hours.

Tutorials: Optional tutorials will be available, on average one hour per week.

Note: Credit can be obtained for only one of Physics 1021, 1051, and 1061.

POLITICAL SCIENCE

Political science is the systematic study of political ideas, events, people, processes and institutions. Its subject matter can range from the patterns of power relationships in basic human institutions to the study of international politics. Because nearly all human relationships are in a sense political, and because government and politics affect all aspects of our lives, an acquaintance with the subject matter of political science can help all individuals to become effective citizens. If you are interested in pursuing the subject in more depth, you may major or minor in political science.

Political Science 1000

Introduction to Politics is an introduction to basic concepts in the study of politics, emphasizing the Canadian system of government and its relationship with the Canadian society.

Lectures: Three hours per week

Prerequisite: None

Political Science 1010

Canadian Political Problems is the analysis of the operation of the Canadian political system through close examination of three selected policy problems, such as poverty in Canada, Canadian-United States relations and French Canada.

Lectures: Three hours per week

Prerequisite: None

Political Science 1020

World Political Problems is an introduction to contemporary issues in world politics. The course will examine selected issues and the manner in which these reflect interests and ideologies and the larger political and economic context in which they occur.

Lectures: Three hours per week

Prerequisite: None

Note: These courses may be taken in any order; none is a prerequisite for 2000-level courses. Only two of these courses may be counted towards the major or minor.

Political Science 2200

Introduction to International Politics is an examination of the "building blocks" of international politics including determinants, means, processes and ends. Emphasis is on the post-1945 period.

Lectures: Three hours a week

Prerequisites: None

Note: This course is required for students interested in the international bachelor of business administration (iBBA) degree program.

PSYCHOLOGY

Psychology is the science of behaviour and experience. It seeks to understand the behaviour of living organisms and, where appropriate, use that knowledge to promote human welfare. The Department of Psychology offers two courses at the introductory level; both are surveys of different subfields within psychology.

Psychology 1000 and 1001

Introduction to Psychology is an introduction to Psychology as a biological and social science. Topics shall include research methodology,

physiological processes, perception, learning, memory and cognition, human development, animal behaviour, emotion, motivation, consciousness, personality and individuality, psychological disorders and treatment, and social psychology.

Prerequisite: Psychology 1000 for Psychology 1001

Lectures: Three hours per week

Note: Psychology 1000/1001 are prerequisites for all other psychology courses.

RELIGIOUS STUDIES

Wondering about the strange and exotic world of religion? Come with us and explore the beliefs of the world's many faiths. Examine the reasons people feel the need to be religious and the impact of their beliefs on history, culture, society and politics. Why do people sacrifice, dress in unusual clothing, perform peculiar rituals? If you've ever asked yourself any of these questions, the Religious Studies Department should be on your list of courses and programs to consider.

Religious studies is the scientific exploration of religion. It neither upholds a particular set of religious beliefs, nor seeks to debunk any of them. Rather it strives to understand religion and religious claims. What do the various faiths mean by God? How do they interpret and express the relationship between humanity and the God they believe in, and how do these beliefs impact upon the lives of their followers and society at large? We explore the answers given by western religions like Christianity and Judaism, eastern religions like Buddhism and Confucianism and some of the world's newer religious movements too.

One of the most asked questions about religious studies is, "What can I do with it?" Two obvious answers are the church and the school system. But there are many careers where knowledge of religion is valuable, especially those that deal with other peoples and other cultures - diplomatic services, international trade and commerce, health care, legal and social workers, and those in the media all benefit from knowing the religious sensitivities of other peoples and cultures.

Memorial University is one of the best places in Canada to study religion. With nine full-time professors, its Religious Studies Department is one of the largest in the country. Indeed, it's the largest English-speaking program east of Montreal. Our facilities are superb as well. In addition to one of the nation's largest libraries, we have the archives of The Religion in Newfoundland and Labrador Collection. Simply put, if you have any questions about anything religious, we have the resources to explore them.

Religious Studies 1000

The Religions of the World is an introduction to the basic beliefs and practices of the world's great religions.

Lectures: Three hours per week

Note: Credit may not be obtained for both Religious Studies 1000 and the former Religious Studies 2010.

Religious Studies 1010

Religion in the Modern World is an introduction to some of the major issues confronting religion in the modern world. The focus will be on such topics as globalization and religion, religious faith and violence, freedom and authority.

Lectures: Three hours per week

Religious Studies 1020

Christianity in Western Civilization is an introduction to Christianity and its place in the history of Western Civilization through examples from Early Christianity, the Reformation, and the Modern Period.

Lectures: Three hours per week

Religious Studies 1021

Apocalypse: The End Times in Thought, Action, and Imagination will explore the many ways in which Judaism and Christianity have anticipated and imagined the end times. Attention will be given to Jewish and early Christian notions of the Messiah and his reign, the end of the world, and the impending judgment, as well as how Christianity has coped repeatedly with the delay of the end and how millennial thought and action have affected people during periods of social and natural crises. The role of millennial expectations in our modern era and why the apocalypse is once again a powerful image in religion, film, and literature will also be covered.

Lectures: Three hours per week

Religious Studies 1022

Jesus in Film is a study of how Jesus is represented in modern film. The course explores the continuing impact that the Jesus of history and faith has had on modern western culture. The course will examine such films as *The Greatest Story Ever Told*, *The Robe*, *The Gospel According to St. Matthew* (by Pasolini), *Jesus Christ Superstar*, *Jesus of Montreal*, *The Last Temptation of Christ*, *The Life of Brian*, *The Passion of the Christ*, *The Newfoundland Passion* (video of the Squires' Paintings).

Lectures: Three hours per week

Religious Studies 1032

Introduction to Asian Religions and Culture is a broadly based survey course introducing students to the religions, culture, and societies of Asia. Traditions explored may include those of India (Hinduism, Buddhism, Sikhism, Jainism), China (Daoism, Confucianism, Buddhism), Japan (Shinto, Zen Buddhism), and Korea.

Lectures: Three hours per week

Religious Studies 1040

Introduction to Chinese (Mandarin) I will introduce students to the basics of Chinese vocabulary, characters, and grammar. Mandarin Chinese, the official dialect of China, Taiwan, and Singapore, will be taught. This course is not intended for native speakers.

Lectures: Three hours per week

Note: Credit may not be obtained for both Religious Studies 1040 and the former Religious Studies 4904.

Religious Studies 1041

Introduction to Chinese (Mandarin) II is a continuation of Religious Studies 1040. At the end of this course students should know over a hundred Chinese characters, which should enable them to read basic texts and carry on a simple conversation. This course is not intended for native speakers.

Prerequisite: Religious Studies 1040.

Lectures: Three hours per week

Notes:

1. Credit may not be obtained for both Religious Studies 1041 and the former Religious Studies 4911.
2. Religious Studies 1040 and 1041 may be used to satisfy the second language requirement of the bachelor of arts degree.

Religious Studies 1050

Introduction to Biblical Hebrew I is designed to introduce students to the elements of Biblical Hebrew in order to prepare them for reading the Hebrew Bible/Old Testament in the original. The emphasis will be upon learning the basic grammar and syntax of Biblical Hebrew.

Lectures: Three hours per week

Note: Credit may not be obtained for both Religious Studies 1050 and either the former Religious Studies 3700 or the former Religious Studies 4900.

Religious Studies 1051

Introduction to Biblical Hebrew II is a continuation of Religious Studies 1050. The emphasis will be upon the reading of selected Hebrew texts.

Lectures: Three hours per week

Prerequisite: Religious Studies 1050.

Notes:

1. Credit may not be obtained for both Religious Studies 1051 and either the former Religious Studies 3701 or the former Religious Studies 4901.
2. Religious Studies 1050 and 1051 may be used to satisfy the second language requirement of the bachelor of arts degree.

Religious Studies 1200

Introduction to the Bible is an introduction to the Bible in English translation. This course introduces the Bible's role as a textual foundation in western religion and culture. The course explores the basic story line, characters, themes, and motifs found in the Bible, with an eye to their impact on western civilization.

Lectures: Three hours per week

RUSSIAN

Because of the recent reforms in Russia, the importance of Russian in the modern world is obvious. It is the official language of the largest country in the world, and one of the five official languages of the United Nations. It is spoken widely as a second language in eastern Europe. The difficulties of the language itself are exaggerated; contrary to the expectations of many, the alphabet is quite easy and can be mastered in a few weeks. The study of Russian provides a fascinating insight into a country that has long been enigmatic but is now the focus of world interest.

Russian is a useful tool for students of the arts, history and political science, and, because of the prominence of Russian technology and research, of business and all natural sciences.

Russian 1000

Elementary Russian I is a course intended to give beginners the fundamentals of Russian grammar and a basic knowledge of the spoken and written language. 3.

Lectures: Four hours per week

Laboratory: One hour per week

Russian 1001

Elementary Russian II is a continuation of Elementary Russian I with the same basic text and a reader.

Prerequisite: Russian 1000 or equivalent.

Lectures: Four hours per week

Laboratory: One hour per week

Notes:

1. Russian 1000/1001 are prerequisites for all other Russian courses, except Russian 2030, 2031, 2600, 2601, 2900, 2901, 3004 as well as several others.
2. A number of courses may be of interest to incoming students. They require no prerequisites, the language of instruction is English throughout and they cover Russian culture and literature, for example, Russian 2600, 2601, 2900, 2901 and 3004. These five courses may not be used as part of the bachelor of arts requirement for two courses in a second language.
3. Russian 2600, 2601, 2900 and 2901 qualify as research/writing courses for the Faculty of Arts.

SCIENCE

To many people, a scientist is someone who spends time working on experiments in a laboratory. Although far from the whole truth, this picture is accurate in underlining the crucial role of the experiment in science. Experimentation leads to the discovery of individual, discrete pieces of information or facts, while the unification or bringing together of many separate but related facts is a generalization. It is this interplay between facts, generalization and experimentation that concerns us in science.

Science 1000

Introduction to Science I is a liberal science course for Arts students, which reflects the way scientists think and work through historical, philosophical and social considerations of the

environment we live in. Typical course content includes: the concepts of matter, motion and energy; the chemical basis for life and the interdependence of organisms; and the abundance and distribution of the Earth's natural resources.

Lectures: Three hours per week

Prerequisite: None

Notes:

1. This course cannot be used to satisfy the science requirement for entry into the bachelor of education (primary/elementary) degree.
2. This course may not be used to fulfill any of the science course requirements for the honours and general degrees in science.

3. This course brings scientists into the classroom to discuss the kind of research they do and how it relates to what science is all about and the social and other issues involved. The course is taught by six scientists and the detailed content will vary from semester to semester.

Note: Science 1150 and 1151 are not acceptable as prerequisites for 2000 level courses in physics, chemistry, biology, geography or earth sciences. Credit may not be obtained for both Science 115A and Science 1150 or for Science 115B and Science 1151.

Science 1150/1151

Introduction to Physical and Life Science is an introduction to some concepts in the Physical and Life Sciences. These courses are primarily intended for the non-science major (B.A.; B.Ed. (Primary/ Elementary)).

Lectures: Three hours per week

Laboratory: Three hours per week

Prerequisite: None

SOCIOLOGY

Sociology is a social science which is concerned with the description, understanding and explanation of the social behaviour of individuals and of the structures and processes of society.

Sociology 1000

Introduction to Sociology (formerly Sociology 2000) is an introduction to the concepts, principles, and topics of Sociology. This course is a prerequisite to most departmental courses.

Sociology 2000

Principles of Sociology (available only at Grenfell) is an introduction to the concepts, principles, and topics of Sociology. The course is a prerequisite to most departmental courses.

Note: Credit may not be obtained for both Sociology 1000 and 2000.

SPANISH

Spanish is spoken by more than 300 million people in Spain and in 20 countries in South, Central and North America. Canada has entered into free trade agreements with many of these countries (NAFTA), and Spanish is one of the most important languages in the economy of our hemisphere. A quarter of the population of the United States speaks Spanish and it is one of the fastest-growing languages in Canada.

Spanish 1000

Elementary Spanish I is an introductory course, covering grammar, reading and oral Spanish.

Lectures: Three hours per week

Laboratory: One compulsory laboratory class period per week and a personal laboratory hour

Prerequisite: None

Note: Free tutorial sessions are available, conducted by native Spanish-speaking monitors. Visits to the Multimedia Language Laboratory (SN-4022) are recommended.

Spanish 1001

Elementary Spanish II is a continuation of Elementary Spanish I.

Lectures: Three hours per week

Laboratory: One compulsory laboratory class period per week and a personal optional laboratory hour at the language or multimedia lab.

Prerequisite: Spanish 1000

Note: Free tutorial sessions are available, conducted by native Spanish-speaking monitors. Visits to the Multimedia Language Laboratory (SN-4022) are recommended.

THEATRE

Theatre-making requires training in a number of different areas of expertise, foremost among them being acting and stagecraft. Acting encompasses the imaginative and physical skills acquired by the contemporary actor through the study of voice, movement, textual interpretation and improvisation. Stagecraft requires a mastery of technical and creative skills such as set design, costume design, lighting, sound and stage management. In addition, students of theatre also need a broad knowledge of the history and theory of performance. Several first-year courses are available to non-theatre majors at Grenfell College.

Theatre 1000 and 1001

Introduction to the History of Theatre I and II is a historical survey of the art of the theatre. The history of theatre will be studied in terms of the evolution of performance and of the physical theatre from their origins in a variety of social

rituals and contexts through to their present plurality of forms. At the same time, the nature and function of the various components of theatrical performance (acting, directing, design, etc.) will be analyzed in terms of period philosophical, social, cultural, political and religious contexts. These courses are open to non-theatre students.

Lectures: Three hours per week.

Theatre 1010

Introduction to Acting is an appreciation of the fundamentals of the craft of acting. Basic exercises in voice, movement, relaxation and concentration, improvisation and script analysis will introduce the student to the imaginative and physical skills required by an actor. This is a basic course for all theatre students regardless of their specific areas of interest. This course is open to non-theatre students.

Studio: Six hours per week.

Theatre 1020

Introduction to Stagecraft is an appreciation of the basic vocabulary and techniques of the various technical and organizational structures and practices of staging plays. Areas of concentration will include scenic and costume construction, basics in lighting, painting, props, sound and stage management. This is a basic course for all theatre students regardless of their specific areas of interest. This course is open to non-theatre students.

Studio: Six hours per week.

Theatre 1110

Acting I is an introductory course for those majoring in acting. Emphasis on voice, speech, movement and text analysis. Various learning methods will be employed, from sensitivity exercises to improvisation and creative

imagination exercises. Participation in in-class performance is required. This course is restricted to Theatre Majors.

Studio: Six hours per week.

Prerequisites: Theatre 1000, Theatre 1010 and 1020.

Theatre 1120

Stagecraft I is an introductory course for those majoring in stagecraft. Emphasis on the fundamentals of scenic carpentry, wardrobe, sound, lighting, crewing, painting and stage management. Practical projects will be related to departmental productions. This course is restricted to Theatre Majors.

Studio: Six hours per week.

Prerequisites: Theatre 1000, 1010 and 1020.

TOURISM STUDIES

Tourism 1000

Principles of Tourism introduces students to the history of tourism and leisure, and the development of the field of tourism studies. This will include consideration of foundational concepts such as culture and nature, research on the needs and gratifications of tourists, and studies of the functions of tourism.

Note:

Credit may not be obtained for both Tourism 1000 and HKR 3565.

Tourism 1100

Perspectives in Tourism is an examination of tourism and the ideals, beliefs, institutions, and experiences that contribute to culture. The course will emphasize the application of the humanities and social sciences to such areas as heritage, tradition and history. The student will gain an understanding of, and appreciation for, the importance of literary, aesthetic, philosophical and religious traditions.

UNIVERSITY EXPERIENCE

University 1010

The University Experience (available only at Grenfell) introduces students to the different modes of enquiry that one finds in the University, the interrelatedness of knowledge and the role of the University in society. It also provides students with tools and techniques of study and research that can lead them to academic success and fulfilling career.

Lectures: Three hours per week

Prerequisite: None

UCC 2020

Applied Cognitive and Affective Learning Strategies for Undergraduate Students is an introduction to cognitive and affective learning strategies and techniques with an emphasis on the application of these techniques in the students' own learning repertoires together with an overview of relevant research from cognitive psychology and related fields. Topics covered will include information processing, memory, forgetting, problem-solving, metacognition, general and specific learning strategies, learning styles, and affective strategies.

Lectures: Three hours per week

Prerequisite: None.

VISUAL ARTS

Visual Arts 100A/B

Drawing I is the fundamentals of drawing with study of line, tone, shape, volume, form, texture, space. Emphasis on drawing the human figure and studio problems. Attendance required.

Studio: Six hours per week.

Co-requisites: Visual Arts 110A/B, 120A/B.

Visual Arts 110A/B

Two Dimensional Design and Media is principles of color theory and color mixing. Painting techniques in various media. Emphasis on rendering of form in space and organization of two dimensional surface through studio problems. Attendance Required.

Studio: Six hours per week.

Co-requisites: Visual Arts 100A/B, 120A/B.

Visual Arts 1000

Introduction to Two-Dimensional Media is an introduction to two-dimensional media (design, drawing and painting) that will provide students with both studio experience and an increased sensitivity to aesthetic concerns. Students will investigate design principles through an exploration of visual fundamentals. The course will also cover basic drawing, including drawing from life and will introduce the study of colour through the use of a variety of media. These concepts will be explored through lecture and/or studio experiences. Attendance is required.

Studio and lecture: Three hours per week.

Note:

Students are NOT expected to have previous drawing or art experience.

Visual Arts 1001

Introduction to Process Based Media is an introduction to process-based media that will provide students with both studio experience and an increased sensitivity to aesthetic concerns. Students will be shown the fundamental concepts of a variety of process-based media with selections being made from the media of printmaking, sculpture and photo media (photography, digital imaging, performance, video). These concepts will be explored through lecture and/or studio experiences. Attendance required.

Studio and lecture: Three hours per week.

Note:

Students are NOT expected to have previous art experience.

Visual Arts 120A/B

Three Dimensional Design and Media is three dimensional form and spatial organization. Exploration of sculptural media through studio problems. Attendance required.

Studio: Six hours per week.

Co-requisites: Visual Arts 100A/B, 110A/B.

WOMEN'S STUDIES

Why should I take Women's Studies?

Women's Studies is both an academic and a personal journey. You are called upon to be agents of social change; to think critically about society and how to reduce inequities and remove barriers to full participation. You are beckoned to learn more about women's history, women's writing, women's work, women's health, women and the family, women and spirituality, women and education, women and sexuality, women and media, women and reproduction, masculinities and other forms of social difference.

What do students taking Women's Studies courses do afterwards?

Some students go on to careers in non-profit organizations, business, the creative arts, education, government and public policy, journalism, law, medicine, publishing, science, the social sciences and social work. Some students continue on to do our Master's of Women's Studies. One of our graduates produced a documentary featured at the St. John's International Women's Film Festival.

Women's Studies 2000

An Interdisciplinary Introduction to Women's Studies is an interdisciplinary introduction to the major concepts, issues and debates of Women's Studies.

Lectures: Three hours per week

Prerequisite: None

APPENDIX "A"
SPECIAL COURSE CRITERIA

SPECIAL COURSE CRITERIA

Newfoundland and Labrador Applicants

Applicants attending the St. John's Campus:		
Subject	High School Course	First-Semester Course
Chemistry	It is recommended, but not required, that students have at least 70 per cent in Mathematics 3204. Students that do not qualify to do Math 1090 in their first semester should consider delaying chemistry 1010 until the following semester.	Chemistry 1010
	Students must complete Chemistry 3202 with at least 75 per cent and have credit for or be registered in Math 1000. Students who, as a result of their Mathematics Placement Test score, are required to drop from Math 1000 to Math 1090 should contact the Chemistry Department before dropping Chemistry 1050.	Chemistry 1050
French	Students with a limited background in French. Permission to register for this course will not be given to students who have completed Français 3202 or 3212 (High School French Immersion).	French 1500
	Students with a strong background in French (completed French 3200 or 3201 with at least 80 per cent). This course is not normally appropriate for graduates of French Immersion programs.	French 1501
	Students with an exceptionally strong background in core French (at least 90 per cent) and graduates of French Immersion programs with a final grade in 3202, extended or accelerated French less than 80 per cent who need to review material previously taught at the secondary level.	French 1502
	Students who have successfully completed Français 3202 or 3212 (Immersion programs) with at least 80 per cent; students who achieve a grade of 4 or 5 on the Advanced Placement examination in French language are normally well prepared for French 2100. Students who received a grade lower than 80 per cent in Français 3202 or 3212 should consult with the French Department on their recommended course.	French 2100
	Native francophone should consult the French Department at 709-737-7636.	
Mathematics	Students who have completed high school mathematics and obtained a score of at least 50 per cent on the Mathematics Placement Test, and do not want or require calculus.	Math 1050 or 1051
	Students who have completed Mathematics 3204 or Mathematics 3205 and obtained a grade of at least 55 per cent on the MPT.	Math 1090
	Students who have completed Mathematics 3204 and obtained a grade of at least 85 per cent on the MPT.	Math 1000
	Students who have completed Mathematics 3205 and obtained a grade of at least 75 per cent on the MPT.	Math 1000
	Students who have successfully completed Advanced Mathematics 3201 or Standard Mathematics from the International Baccalaureate program.	Math 1000
	Students who have completed high school mathematics, but have not obtained an acceptable score on the MPT and need to study math for their program.	Math 102F
Physics	Students should have completed at least level III advanced mathematics or Math 1090, 1090 may be taken concurrently. It is recommended that students have completed at least one of Physics 2204 or 3204; however, it may be completed by someone who has no physics background provided extra effort is made.	Physics 1020
	Students should have completed both Physics 2204 and Physics 3204 and be currently registered in Math 1000 (not 1090).	Physics 1050

SPECIAL COURSE CRITERIA

Applicants attending the Sir Wilfred Grenfell College Campus:		
Subject	High School Course	First-Semester Course
Chemistry	Course is intended for students with no previous exposure to chemistry, or those who are returning to the subject after some years.	Chemistry 1810
	Completed Chemistry 3202 or achieved a grade of at least 75 per cent in Chemistry 2202.	Chemistry 1200
French	French students with a limited background in French (including students who have completed high school Core French below French 3201). Permission to register for this course will not normally be given to students who have completed Français 3202 or 3212 (High School French Immersion). *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test for admission into 1501.	French 1500
	Students who have successfully completed French 3201 or Français 3202 or 3212 (High School French Immersion). *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test.	French 1501
	Native francophones should consult the Arts Division at Sir Wilfred Grenfell College at 709-637-6215.	
	*French 1502 is offered in the winter and spring semesters every year.	
Mathematics	Students who have completed high school mathematics and do not want or require calculus.	Math 1050 or 1051
	Students who have completed Mathematics 3204.	Math 1090
	Students who have completed Mathematics 3205 and obtained a pass on the placement test. Students who do not successfully complete the placement test will be required to complete Math 1090.	Math 1000
	Students who have successfully completed Advanced Mathematics 3201 or Standard Mathematics from the International Baccalaureate program and obtained a pass on the placement test.	Math 1000
Physics	Students should have completed at least level III advanced mathematics or Math 1090 (may be taken concurrently).	Physics 1020
	Students should have completed both Physics 2204 and Physics 3204 and be currently registered in Math 1000 (not 1090).	Physics 1050

SPECIAL COURSE CRITERIA

Nova Scotia Applicants

Applicants attending the St. John's Campus:		
Subject	High School Course	First-Semester Course
Chemistry	Grade 12 Chemistry recommended but not required.	Chemistry 1010
	Grade 12 Chemistry with at least 75 per cent. Have credit for or be registered in Math 1000. Students who are required to drop from Math 1000 or Math 1090 as a result of their MPT score should not drop Chemistry 1050 before contacting the Chemistry Department.	Chemistry 1050
French	Core French 10 or 11 or Core French or French Extended Core 11 with grade of less than 75 per cent.	French 1500
	Core French 12 or French Extended Core 11 with at least 75 per cent or French Extended Core 12 or French Immersion with grade of less than 75 per cent.	French 1501
	French Extended Core 12 with at least 75 per cent or French Immersion with grade of less than 75 per cent (need waiver from French Department).	French 1502
	French Immersion with at least 75 per cent.	French 2100
	Native francophones should consult the French Department at 709-737-7636.	
Mathematics	Students are advised, but not required, to write the Mathematics Placement Test (MPT). For students who have written the MPT, we advise the following:	
	Academic or Advanced Math 12 with Math Placement Test score of at least 50 per cent and do not want or require calculus.	Math 1050 or 1051
	Academic or Advanced Math 12 with Mathematics Placement Test score of at least 55 per cent.	Math 1090
	Advanced Math 12 with Mathematics Placement Test score of at least 85 per cent.	Math 1000
	Students who have completed high school mathematics, but have not obtained an acceptable score on the Mathematics Placement Test and need to study math for their program.	Math 102F
Physics	Physics 11 recommended. Eligible for and registered in for Math 1090.	Physics 1020
	Physics 11 and 12. Eligible for and registered in Math 1000.	Physics 1050
Applicants attending the Sir Wilfred Grenfell College Campus:		
Subject	High School Course	First-Semester Course
Chemistry	Course is intended for students with no previous exposure to chemistry, or those who are returning to the subject after some years.	Chemistry 1810
	Grade 12 Chemistry or achieved a grade of at least 75 per cent in Grade 11 Chemistry.	Chemistry 1200
French	Fre-Core 10 or 11 or Fre-Core 12 or Fre-Ext 11 with grade of less than 75 per cent. *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test for admission into 1501.	French 1500
	Fre-Core 12 or Fre-Ext 11 with at least 75 per cent or Fre-Ext 12 or French Immersion. *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test.	French 1501
	Native francophones should consult with the Arts Division at Sir Wilfred Grenfell College at 709-637-6215.	
	*French 1502 is offered in the winter and spring semesters every year.	
Mathematics	Academic or Advanced Math 12 and do not want or require calculus.	Math 1050 or 1051
	Advanced Math 12.	Math 1090
	Advanced Math 12 and obtain a pass on the Mathematics Placement Test. Students who do not pass the placement test will be required to complete Math 1090.	Math 1000
Physics	Eligible for and registered in Math 1090.	Physics 1020
	Physics 11 and 12. Eligible for and registered in Math 1000.	Physics 1050

SPECIAL COURSE CRITERIA

New Brunswick Applicants

Applicants attending the St. John's Campus:		
Subject	High School Course	First-Semester Course
Chemistry	Grade 12 Chemistry recommended but not required.	Chemistry 1010
	Grade 12 Chemistry with at least 75 per cent and must have credit for or be registered in Math 1000. Students who are required to drop from Math 1000 to Math 1090 as a result of their Mathematics Placement Test score should not drop Chemistry 1050 before contacting the Chemistry Department.	Chemistry 1050
French	French 6130 (French I) or French 6140 (French II) with grade of less than 75 per cent.	French 1500
	French 6140 (French II) with at least 75 per cent or French Immersion with grade at less than 75 per cent.	French 1501
	French Immersion with grade less than 75 per cent (need waiver from French Department)	French 1502
	French Immersion with at least 75 per cent.	French 2100
	Native francophones should consult the French Department at 709-737-7636.	
Mathematics	Students are advised, but not required, to write the Mathematics Placement Test (MPT). For students who have written the MPT, we advise the following:	
	Math 122 or Math 121 with Mathematics Placement Test score of at least 50 per cent and do not want to require calculus.	Math 1050 or 1051
	Math 122 or Math 121 with Mathematics Placement Test score of at least 55 per cent.	Math 1090
	Math 121 with Mathematics Placement Test score of at least 75 per cent or Math 122 with Math Placement Test score of at least 85 per cent.	Math 1000
	Students who have completed high school mathematics, but have not obtained an acceptable score on the Mathematics Placement Test and need to study math for their program.	Math 102F
Physics	Physics 112 recommended. Eligible for and registered in Math 1090.	Physics 1020
	Physics 112 and 122. Eligible for and registered in Math 1000.	Physics 1050
Applicants attending Sir Wilfred Grenfell College Campus:		
Subject	High School Course	First-Semester Course
Chemistry	Course is intended for students with no previous exposure to chemistry, or those who are returning to the subject after some years.	Chemistry 1810
	Grade 12 Chemistry or achieved a grade of at least 75 per cent in Grade 11 Chemistry.	Chemistry 1200
French	French 6130 (French I) or French 6140 (French II) with grade of less than 75 per cent *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test for admission into 1501.	French 1500
	French 6140 (French II) with at least 75 per cent or French Immersion. *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test.	French 1501
	Native francophones should consult with the Arts Division at Sir Wilfred Grenfell College at 709-637-6215.	
	*French 1502 is offered in the winter and spring semesters every year.	
Mathematics	Math 122 or Math 121 and do not want or require calculus.	Math 1050 or 1051
	Math 122 or Math 121.	Math 1090
	Math 121 and a pass on the Mathematics Placement Test. Students who do not pass the placement test will be required to complete Math 1090.	Math 1000
Physics	Eligible for and registered in Math 1090.	Physics 1020
	Physics 112 and 122. Eligible for and registered in Math 1000	Physics 1050

SPECIAL COURSE CRITERIA

Prince Edward Island Applicants

Applicants attending the St. John's Campus:		
Subject	High School Course	First-Semester Course
Chemistry	Grade 12 Chemistry recommended but not required.	Chemistry 1010
	Grade 12 Chemistry with at least 75 per cent. Eligible for and registered in Math 1000. Students who are required to drop from Math 1000 to Math 1090 as a result of their Mathematics Placement Test score should not drop Chemistry 1050 before contacting the Chemistry Department.	Chemistry 1050
French	French 421A OR 521A OR French 621A with grade less than 75 per cent.	French 1500
	French 621A with grade of at least 75 per cent OR French Immersion with grade less than 75 per cent.	French 1501
	French Immersion with grade less than 75 per cent (need waiver from French Department).	French 1502
	French Immersion with at least 75 per cent.	French 2100
	Native francophone should consult the French Department at 709-737-7636	
Mathematics	Students are advised, but not required, to write the Mathematics Placement Test (MPT) For students who have written the MPT, we advise the following:	
	Math 621A OR Math 621B and a Mathematics Placement Test score of at least 50 per cent and do not want or require calculus.	Math 1050 or 1051
	Math 621A OR Math 621B and a Mathematics Placement Test score of at least 55 per cent.	Math 1090
	Math 621 B and Mathematics Placement Test score of at least 75 per cent OR Math 621A and a Mathematics Placement Test score of at least 85 per cent.	Math 1000
	Students who have completed high school mathematics, but have not obtained an acceptable score on the MPT and need to study math for their program.	Math 102F
Physics	Physics 521A recommended. Eligible for and registered in Math 1090.	Physics 1020
	Physics 521A and 621A. Eligible for and registered in Math 1000.	Physics 1050
Applicants attending the Sir Wilfred Grenfell College Campus:		
Subject	High School Courses	First-Semester Course
Chemistry	Course is intended for students with no previous exposure to chemistry, or those who are returning to the subject after some years.	Chemistry 1810
	Grade 12 Chemistry or achieved a grade of at least 75 per cent in Grade 11 Chemistry.	Chemistry 1200
French	French 421A OR 521A OR French 621A with grade less than 75 per cent. *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test for admission into 1501.	French 1500
	French 621A with grade of at least 75 per cent OR French Immersion. *Students who feel they should be in a higher level French are invited to speak with the French Department at the beginning of the semester and arrange to write the diagnostic test.	French 1501
	Native francophones should consult with the Arts Division at Sir Wilfred Grenfell College at 709-637-6215.	
	*French 1502 is offered in the winter and spring semesters every year.	
Mathematics	Math 621A OR Math 621B and do not want or require calculus.	Math 1050 or 1051
	Math 621A.	Math 1090
	Math 621B and a pass on the Mathematics Placement Test. Students who do not pass the placement test may register for Math 1090.	Math 1000
Physics	Eligible for and registered in Math 1090.	Physics 1020
	Physics 521A and 621A. Eligible for and registered in Math 1000.	Physics 1050

**APPENDIX “B”
ADVANCED PLACEMENT**

ADVANCED PLACEMENT POLICY

AP SUBJECT	MUN CREDIT RECOMMENDED	MINIMUM AP GRADE REQUIRED
Biology	Biology 1001 + three unspecified credit hours (1 st year level)	4 or 5
Chemistry	Chemistry 1010, 1011 Chemistry 1050, 1051	3 or 4 5
Computer Science <i>Computer Science A</i> <i>Computer Science AB</i>	Computer Science 1710 Computer Science 1710, 2710	3 3
Economics <i>Microeconomics</i> <i>Macroeconomics</i>	Economics 2010 Economics 2020	3 3
English <i>Literature/Composition</i> <i>Language/Composition</i>	English 1080 No credit recommended	4
Environmental Science	Environmental Science 1000	3
French <i>French Language</i> <i>French Literature</i>	French 1500 French 1500, 1501 French 1501, 1502 French 2601 French 2601 + three unspecified credit hours at the 2 nd year level	3 4 5 4 5
Geography <i>Human Geography</i>	Geography 1050	3
German	German 1000 German 1000, 1001	4 5
History <i>Art History</i> <i>European History</i> <i>U. S. History</i> <i>World History</i>	Visual Arts/History 2700, 2701 History – six unspecified credit hours at the 2 nd year level History – six unspecified credit hours at the 2 nd year level History 2500, 2510	3 3 3 3
Mathematics <i>Calculus AB</i> <i>Calculus BC</i>	Math 1000 Math 1000	3 3
Music Theory	Music 1116, 1120 Music 1107, 1116, 1117, 1120 Music 1107, 1108, 1117, 1118	3 4 5
Physics <i>Physics B</i> <i>Physics C</i>	Physics 1020, 1021 To be evaluated on an individual basis	3
Political Science <i>U. S. Govt & Politics</i> <i>Comp Govt & Politics</i>	Political Science – three unspecified credit hours Political Science – three unspecified credit hours	4 4
Psychology	Psychology 1001 (exemption from 1000) NOTE: Although students may be exempt from Psych 1000, the Psychology Dept. generally recommends that all students complete this course.	3
Statistics	Statistics 2500	3
Studio Art	Visual Art 1000	3

**APPENDIX “C”
INTERNATIONAL BACCALAUREATE**

INTERNATIONAL BACCALAUREATE (IB) POLICY (JANUARY 2006)

IB SUBJECT	MUN CREDIT RECOMMENDED	STANDING REQ'D
Biology (<i>Higher</i>)	Biology 1001, 1002 (Students who have received a grade of "4" can have the requirements for Biology 1001, 1002 <u>waived</u> and may replace those courses with higher level biology courses.)	5
Biology (<i>Standard</i>)	No credit	
Chemistry (<i>Higher</i>)	Chemistry 1050, 1051 Chemistry 1010, 1011 Chemistry 1010	6 5 4
Chemistry (<i>Standard</i>)	Chemistry 1010	5
Computer Science (<i>Higher</i>)	To be evaluated on an individual basis	4
Computer Science (<i>Standard</i>)	To be evaluated on an individual basis	4
Economics (<i>Higher</i>)	Economics 2010, 2020, 3030 + three unspecified credit hours (2 nd year level)	4
Economics (<i>Standard</i>)	Economics – three unspecified credit hours (2 nd year level)	4
English (<i>Higher</i>)	English 1080, 1101	4
English (<i>Standard</i>)	No credit	
Environmental Systems	Environmental Science 1000	4
French (<i>Higher</i>)	French 1500, 1501	4
French (<i>Standard</i>)	French 1500	4
Geography (<i>Higher</i>)	Geography 1050, 2002, 2002 + three unspecified credit hours (1 st year level)	4
Geography (<i>Standard</i>)	No credit	
History (<i>Higher</i>)	History – six unspecified credit hours (2 nd year level)	4
History (<i>Standard</i>)	History – three unspecified credit hours (2 nd year level)	4
Mathematics (<i>Higher</i>)	Math 1000, 1001	4
Mathematics (<i>Standard</i>)	No credit – Permission granted by department to allow direct entry into 1000	4
Music (<i>Higher</i>)	Music 1120, 2012 + 4 unspecified credit hours (1 st year level, Applied Music)	5
Music (<i>Standard</i>)	Music 2012	5
Philosophy (<i>Higher</i>)	Philosophy – six unspecified credit hours	4
Philosophy (<i>Standard</i>)	Philosophy – three unspecified credit hours	4
Physics (<i>Higher</i>)	Physics 1020, 1021	4
Physics (<i>Standard</i>)	No credit	
Psychology (<i>Higher</i>)	Psychology 1000, 1001 + three unspecified credit hours	4
Psychology (<i>Standard</i>)	Psychology 1000, 1001	4
Spanish (<i>Higher</i>)	Spanish 1000, 1001	4
Spanish (<i>Standard</i>)	Spanish 1000	4
Theatre Arts (<i>Standard</i>)	No Credit	
Visual Art	To be evaluated on an individual basis	4

APPENDIX “D”
SYNOPSIS AND EXAMPLES REPRESENTATIVE OF
THE MATH PLACEMENT TEST

Synopsis and Examples Representative of the Math Placement Test

The Math Placement Test consists of 100 questions divided into 20 sections as outlined below. There are 5 choices offered for each answer and the candidate fills in the appropriate space on a computer-readable answer sheet. The questions given here are intended to indicate the average level of difficulty within each section. **CANDIDATES WRITING THE TEST WILL NOT USE CALCULATORS.**

1 - 5. Fractions: Preliminaries

This section contains questions about the lowest common denominator of three fractions of the form $\frac{1}{n}$ where $n \leq 20$, finding equivalent fractions and factoring into prime factors.

$$\text{Write in lowest terms: } \frac{28}{52}$$

6 - 10. Fractions: Addition, Subtraction

The heading is self explanatory.

$$1\frac{2}{3} + 2\frac{5}{6} =$$

11 - 15. Fractions: Multiplication and Division

Again, the heading is self explanatory.

$$4\frac{1}{7} \div 3\frac{1}{4} =$$

16 - 20. Decimals:

This section contains questions involving the four arithmetic operations on decimal fractions.

$$3.0 \times 1.2 \times .003 =$$

21 - 25. Percents:

Questions in this section deal with changing percents to decimals and vice versa, and calculating given percents of given numbers.

$$20\% \text{ of } 75 =$$

26 - 30. Order of operations:

The concept that multiplication and division are performed before addition and subtraction, but otherwise in the order that they occur unless otherwise indicated by parentheses should be part of the curriculum of elementary schools.

$$45 \div 9 - 5 \times 3 =$$

31 - 35. Laws of Signs:

This segment of the test evaluates students' knowledge of sums, products and quotients of signed numbers.

$$-(-4) \div (-2) + 6 =$$

36 - 40. Equations:

The section contains 5 linear equations (equations in one variable) which the candidate is asked to solve.

$$\text{If } 4(x - 2) - 3x = 5(2 - x), \text{ then } x =$$

41 - 45. Laws of Exponents:

These questions deal with the rules for simplifying expressions that contain combinations of powers.

$$(2t^5)^3 =$$

46 - 50. Negative Exponents:

Like the last section with the inclusion of a negative.

$$(b^3)^{-4} =$$

51 - 55. Formula Rearrangement:

Students need to demonstrate in this section that they can apply the rules of algebraic manipulation in the rearrangement of formulae.

$$\text{If } p = \frac{q - r}{s}, \text{ then } r =$$

56 - 60. Algebraic Fractions:

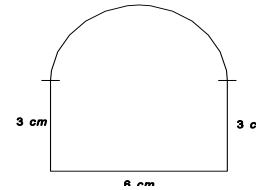
This section contains questions concerning arithmetic operations on algebraic fractions.

$$\frac{2x}{3y} + \frac{4z}{y} =$$

61 - 65. Mensuration:

Five geometric figures are displayed and candidates are asked to determine perimeter, area or volume of the figures.

Find the perimeter of the entire figure in the diagram.



66 - 70. Quadratic Equations:

To answer these questions, a candidate would need to know the zero product property and the quadratic formula

$$\text{Solve for } x: x^2 - x = 6$$

71 - 75. Graphing:

The students are given three graphs, each with a single curve or series of points and asked to answer 5 questions about the graphs or about simple graphing concepts.

$$\text{What is the } y\text{-intercept of the line represented by } y = -\frac{x}{3} + \frac{1}{2}?$$

76 - 80. Algebraic Fractions II:

Candidates are asked to manipulate rational expressions and reduce to lowest terms, find the lowest common denominator or simplify.

$$\text{Simplify: } \left(\frac{2}{xy} + \frac{1}{x} \right) \div \frac{3}{xy}$$

81 - 85. Radicals and Fractional Exponents:

The candidate is asked to show facility in the manipulation of roots and fractional powers of algebraic expressions.

$$4^{\frac{1}{2}} \times \sqrt[3]{27}$$

86 - 90. Logarithms:

The five questions of this section require knowledge of the fundamental properties of logarithms.

$$\text{Simplify: } \log 5 + \log 4$$

91 - 95. Trigonometry:

To answer these five questions, students need the rudiments of trigonometry on the unit circle.

$$2\pi \text{ radians} = \quad (\text{Answer in } ^\circ)$$

96 - 100. Questions ("Word Problems"):

This last section requires that students be able to translate information given in simple English phrases, sentences and paragraphs into mathematical symbols and solve the stated problem.

Five less than three times one seventh of a number is four. Find the number.

**APPENDIX “E”
COURSE OFFERINGS BY CAMPUS**

Subject	Course Number	St. John's Campus	Grenfell Campus
Anthropology	1030	✓	
Anthropology	1031	✓	✓
Biochemistry	1430	✓	✓
Biology	1001	✓	✓
Biology	1002	✓	✓
Business	1000	✓	✓
Business	2000	✓	✓
Chemistry	1001		✓
Chemistry	1010	✓	
Chemistry	1011	✓	
Chemistry	1031	✓	
Chemistry	1050	✓	✓
Chemistry	1051	✓	
Chemistry	1200		✓
Chemistry	1810		✓
Chemistry	1900		✓
Classics	1050	✓	
Classics	1100	✓	✓
Classics	1120	✓	✓
Classics	1121	✓	✓
Classics	1130	✓	
Classics	1131	✓	
Classics	1200	✓	✓
Computer Science	1600	✓	
Computer Science	1700	✓	
Computer Science	1710	✓	
Computer Science	2710	✓	
Computer Science	2742	✓	
Earth Sciences	1000	✓	✓
Earth Sciences	1002	✓	✓
Economics	2010	✓	✓
Economics	2020	✓	✓
English	1000		✓
English	1001		✓
English	1020	✓	✓
English	1021	✓	
English	1080	✓	
English	1030	✓	

Subject	Course Number	St. John's Campus	Grenfell Campus
English	1101	✓	
English	1102	✓	
English	1103	✓	
English	1110	✓	
English	102F	✓	
Environmental Science	1000		✓
Environmental Studies	1000		✓
Folklore	1000	✓	✓
Folklore	1050	✓	
Folklore	1060	✓	
French	1500	✓	✓
French	1501	✓	✓
French	1502	✓	✓
French	2100	✓	✓
Geography	1000		✓
Geography	1001		✓
Geography	1050	✓	
Geography	2001	✓	✓
Geography	2102	✓	✓
Geography	2195	✓	
Geography	2302	✓	✓
Geography	2425	✓	✓
German	1000	✓	
German	1001	✓	
History	1010	✓	
History	1011	✓	
History	1012	✓	
History	1013	✓	
History	1014	✓	
History	1015	✓	
History	1100		✓
History	1101		✓
HKR	All courses	✓	
Italian	1000	✓	
Italian	1001	✓	
Linguistics	1100	✓	
Linguistics	1103	✓	

Subject	Course Number	St. John's Campus	Grenfell Campus
Linguistics	1104	✓	
Linguistics	2103	✓	
Linguistics	2104	✓	
Mathematics	1000	✓	✓
Mathematics	1001	✓	✓
Mathematics	1050	✓	✓
Mathematics	1051	✓	✓
Mathematics	1090	✓	✓
Mathematics	102F	✓	
Mathematics	103F	✓	
Mathematics	104F	✓	
Medieval Studies	2000	✓	
Music	All Courses	✓	
Nursing	1002	✓	✓
Nursing	1003	✓	✓
Nursing	1004	✓	✓
Nursing	1012	✓	✓
Nursing	1014	✓	✓
Nursing	1015	✓	✓
Nursing	1016	✓	✓
Nursing	1017	✓	✓
Nursing	1520	✓	✓
Philosophy	1200	✓	✓
Philosophy	1600	✓	✓
Physics	1020	✓	✓
Physics	1021	✓	✓
Physics	1050	✓	✓
Physics	1051	✓	✓
Political Science	1000	✓	✓
Political Science	1010	✓	
Political Science	1020	✓	
Political Science	2200	✓	
Psychology	1000	✓	✓

Subject	Course Number	St. John's Campus	Grenfell Campus
Psychology	1001	✓	✓
Religious Studies	1000	✓	✓
Religious Studies	1010	✓	
Religious Studies	1020	✓	
Religious Studies	1021	✓	
Religious Studies	1022	✓	
Religious Studies	1032	✓	
Religious Studies	1040	✓	
Religious Studies	1041	✓	
Religious Studies	1050	✓	
Religious Studies	1051	✓	
Religious Studies	1200	✓	
Russian	1000	✓	
Russian	1001	✓	
Science	1000	✓	
Science	1150	✓	
Science	1151	✓	
Sociology	1000	✓	
Sociology	2000		✓
Spanish	1000	✓	
Spanish	1001	✓	
Theatre	All courses		✓
Tourism	1000		✓
Tourism	1100		✓
UCC	2020	✓	
University	1010		✓
Visual Art	100 A/B		✓
Visual Art	110 A/B		✓
Visual Art	120 A/B		✓
Visual Art	1001		✓
Visual Art	2700		✓
Visual Art	2701		✓
Women's Studies	2000	✓	

APPENDIX “F”
COMPLEMENTARY STUDIES ELECTIVE COURSES

**Engineering and Applied Science
Complementary Studies Electives – Transition Program (2007-09)
(CLASS OF 2013)**

Note: In addition to English 1080 (or equivalent), English 1020, or English 1000, students in the Transition Program must take two complementary studies electives from Lists A and B. At least one of the electives must be selected from List B.

List A:

Course from the Humanities, Social Sciences, Arts, Management and Communications

Anthropology:	1030, 1031
Business:	2000, 2101, 2301, 4000
Classics:	1050, 1100, 1200; 1120, 1121, 1130, 1131
English:	1101, 1102, 1103, 1110, (1001 at SWGC)
Environmental Studies:	1000
Folklore:	1000, 1050, 1060
French:	1500, 1501, 1502
Geography:	1050, (1000, 1001 at SWGC).
German:	1000, 1001
History:	1010, 1011, 1012, 1013, 1014, 1015, (1100, 1101 at SWGC)
Italian:	1000, 1001
Linguistics:	1100, 1103, 1104
Music:	2011
Philosophy:	1200, 1600
Political Science:	1000, 1010, 1020
Psychology:	1000, 1001
Religious Studies:	1000, 1010, 1020, 1021, 1032, 1200, 1040; 1041, 1050, 1051
Russian:	1000, 1001
Sociology:	1000
Spanish:	1000, 1001

Courses with a writing component

Note: Reserve seating policies and pre-requisites apply to some courses.
Please consult the appropriate department.

Anthropology:	S/C 2410, S/C 2411, S/C 2412, S/C 2413; S/C 2414
Classics:	2010, 2015, 2020, 2025, 2035, 2040, 2055, 2060, 2701, 2805, 2810
English:	2000, 2001, 2002, 2003, 2004, 2010, 2120, 2150, 2151, 2160, 2211, 2212, 2213, 2214, 2700, 2811
Folklore:	2300, 2401, 2500
French:	2100, 2101, 2601, 2602, 2900
Geography:	2001, 2105, 2302, 2405, 2425, 2495
German:	2900, 2901
History:	2020, 2031, 2035, 2040, 2110, 2130, 2200, 2210, 2300, 2310, 2320, 2330, 2340, 2350, 2400, 2500, 2510, 2600, 2610, 3660
Medieval Studies:	2001
Philosophy:	2200, 2210, 2220, 2230, 2701, 2702, 2800-2810
Political Science:	2000, 2010, 2200, 2300, 2350, 2710, 2711
Religious Studies:	All 2000 level courses.
Russian:	2600, 2601, 2900, 2901

And the following designated writing courses in Arts and Social Sciences at Sir Wilfred Grenfell College:

Anthropology:	2240
Classics:	2010, 2015, 2020, 2035, 2040, 2055, 2060, 2701, 2800, 2801
English:	All 2000 level courses
Folklore:	2300, 2401, 2500, 2600
French:	2100, 2101, 2601, 2602
Geography:	2001, 2302
History:	All 2000 level courses, including History/Visual Arts 2700, History/Visual Arts 2701
Philosophy:	2200, 2220, 2230, 2701, 2702, 2800-2810
Political Science:	2000, 2200, 2701
Religious Studies:	2011, 2013, 2050, 2051, 2610
Sociology:	2240, 2610

List B:

Courses dealing with central issues, methodologies and thought processes of the Humanities and Social Sciences

Anthropology:	All 2000 level courses designated S/A or S/C
Classics:	All 2000 level courses
Economics:	2010, 2020
Environmental Studies:	2000
English:	2000, 2001, 2002, 2003, 2120, 2160, (2005, 2006, 2007 at SWGC)
Folklore:	All 2000 level courses
French :	2900
Geography:	2001, 2290, 2302, 2425
German:	2900, 2901, 3000
History:	All 2000 level courses
Law and Society:	2000
Linguistics:	2100
Medieval Studies:	2000, 2002
Philosophy:	2200, 2210, 2220, 2230, 2701, 2702, 2800
Political Science:	All 2000 level courses
Psychology:	2010, 2011, 2100, 2540, 3533
Religious Studies:	All 2000 level courses
Russian:	2900, 2901
Sociology:	2000, 2100, 2110, 2250, and all 2000 level courses designated S/A.
Spanish:	3300
Women's Studies:	2000

