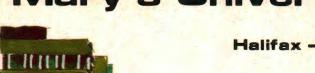
Saint Mary's University



Halifax - Canada

C. A. LAW

1970-1971 ACADEMIC CALENDAR

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- Main Building
 Canadian Martyr's Parish and Cha
 Eaculty Offices
 Chemistry-Biology Building

N

5

6

- Library
 Students' Center
 Winter Arena and Field House
 Practice Sports Field
 - - - 0. Stadium

- High Rise Residence
 Low Rise Residence
 Dining Hell and Swimming Pool
 Canadian Martyr's Parish Center

Saint Mary's University

General Calendar for the academic year 1970-71

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October 3, 1969	

Academic Calendar Year 1970-1971

MAY

12	Tuesday	Registration for first Summer Session.	
13	Wednesday	First Summer Session begins.	
JUNE			
26	Friday	First Summer Session examinations.	
JULY			
2	Thursday	Registration for second Summer Session.	
3	Friday	Second Summer Session begins.	
10	Friday	Last day for receiving applications for supplemental examinations.	
AUGUS	ST		
14	Friday	Second Summer Session examinations.	
SEPTEM	IBER		
3	Thursday	Supplemental examinations, begin at 9:00 a.m.	
8 - 11	Tues Fri.	Registration for Evening Division students 7:00 p.m 8:30 p.m.	
8	Tuesday	General Faculty Meeting. Registra- tion for all Fourth Year students and graduate students. 9:00 a.m 12:00 noon, 1:00 p.m 5:00 p.m.	
9	Wednesday	Registration for all third year students. 9:00 a.m 12:00 noon, 1:00 - 5:00	
10	Thursday	p.m. Registration for all second year students 9:00 a.m 12:00 noon, 1:00 p.m 5:00 p.m.	
		1	

11	Friday	Registration for all new students entering as sophomores 9:00 a.m	
		12:00 noon.	
11	Friday	Registration for all new students entering as freshmen 2:00 p.m	
12	Saturday	5:00 p.m. Registration for all new students entering as freshmen - continued.	
14	Monday	9:00 a.m 12:00 noon, 2:00 p.m 5:00 p.m. Instruction begins for all classes. late registration fee of \$25.00 with an additional fee of \$10.00 for each	
18	Friday	day after this date. Final date for late registration and last day for change of registration.	
23	Wednesday	University day Classes. Classes close at 12:30.	
осто	BER		
2	Friday	Fall Convocation.	
12	Monday	Thanksgiving Day. No Classes.	
NOVE	MBER		
11	Wednesday	Remembrance Day (no classes)	
DECE	MBER		
8	Tuesday	Feast of the Immaculate Concep- tion.	
18	Friday	End of Term.	
		Patronal Feast of the University.	
JANU	ARY		
4	Monday	Classes resume at 9:20 a m	
	Tues Tues.	Classes resume at 8:30 a.m. Registration of all students for second semester.	
FEBR	UARY		
5 - 7	Fri Sun.	Senior Weekend.	
MARC	н		
8 - 26		Pre-registration of all students for	
13	Saturday	"next academic year. Charter Day.	

Charter Day.

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APRIL

7	Wednesday	Easter recess begins after the last class.
13	Tuesday	Final examinations begin.
29	Thursday	Survey Camp begins.

MAY

9	Sunday	Baccalaureate Ceremony	
10	Monday	Spring Convocation	
11	Tuesday	Registration for first Summer	
		Session.	
12	Wednesday	First Summer Session begins.	

JULY

5	Monday	Registration for second Summer Session.	
6	Tuesday	Second Summer Session begins.	
15	Thursday	Last Day receiving Applications for Supplemental Examinations	

AUGUST

18 Wed	Wednesday	Second	Summer	Session	examin-
		ations b	egin at 9:0)0 a.m.	

	1970			
JANUARY	FEBRUARY	MARCH	APRIL	
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1971			
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General Information

HISTORY

Saint Mary's University had its beginnings as a small college founded in Halifax in 1802 by Reverend, later Bishop, Edmund Burke. The site of the first building was just west of the present Saint Mary's Basilica on Spring Garden Road.

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Official recognition came in 1841 when "An Act Incorporating the trustees of Saint Mary's College at Halifax" was enacted by the Nova Scotia House of Assembly. Eleven years later the privileges granted in the Act of 1841 were made permanent.

In 1881, Saint Mary's received a handsome bequest from the will of Mr. Patrick Power, a prominent Halifax business man. This generosity came at a critical period in the history of Saint Mary's, since without it the institution might not have survived.

In 1903, the College was re-established on a new campus at Quinpool Road and Windsor Street in Halifax. Ten years later the Christian Brothers of Ireland assumed direction and added to the building.

In 1918, the Nova Scotia Legislature in the preamble to an Act to amend the law respecting Saint Mary's, declared that Saint Mary's, "originally incorporated by Chapter 39 of the Acts of 1841, shall continue to be deemed and taken to be a University, with all the necessary and usual powers ... including the power of conferring Degrees in Arts and in all the other faculties."

The Jesuit Fathers assumed direction of Saint Mary's in 1940. In 1951, the University moved to a new 30 acre campus on the historic Collins estate and former Gorsebrook Golf Course in south Halifax. In 1968 Saint Mary's University became a co-educational university.

ASSOCIATIONS

Saint Mary's University is a member of the Association of Commonwealth Universities, of the Association of Universities and Colleges of Canada, of the Association of Atlantic Universities and of the Jesuit Educational Association.

Saint Mary's has been associated with the Nova Scotia Technical College since 1916 providing the first three years of courses leading to the Degree of Bachelor of Engineering in Civil, Electrical, Mechanical, Mining, Metallurgical, Chemical, Industrial and Geological Engineering. Since 1953, Saint Mary's has been one of the institutions sponsoring the Atlantic Summer School for Advanced Business Administration. In 1955, it entered upon an agreement of affiliation with the Maritime School of Social Work. And in 1957, it affiliated Ignatius College in Guelph, Ontario, and Regis College in Toronto, Ontario, for courses leading to degrees in Arts and Sacred Theology. Also in 1957, Saint Mary's became one of the six Maritime Universities co-operating with the Nova Scotia Department of Education in the professional training of teachers.

STATEMENT OF OBJECTIVES

This University believes that its objective is to induce, in the individual student, that kind of critical thinking that will build and refine his constructive, judgemental powers towards his own free formation of a system of Christian and humanistic values and principles that can face and answer the cultural and technological challenges of the present day. This University consequently believes that traditional humanism, confirmed by the teachings of Jesus Christ, and supplemented by the scientific and professional awareness required in our time, is the best educational instrument for the making of modern Canadians.

CHRISTIAN LIFE

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The University encourages its members to pursue any activities which further its aims.

Saint Mary's University is a Christian University, and as such endeavours to create a specifically Christian atmosphere. This atmosphere is one in which concerned Christians are able to search for and spell out a concretization of their convictions.

One source of this desirable atmosphere stems from the opportunities of f e r e d Students, Faculty and Administration to participate in Liturgical functions and other religious programs, and this effort must be positive and to some extent aggressive if it is to go beyond the opportunities offered on a strictly secular campus. The word aggressive is to be understood not as implying any indoctrination or interference with religious freedom but rather in the sense of leadership and example.

The Chaplain, whose function it is to coordinate religious activities and provide religious services, has an office on the fourth floor of the Student Center.

Mass is celebrated twice daily for the convenience of all, in the Liturgical Center, third floor of the Student Center, and in the Chapel on the first floor of the High Rise Residence.

A University Community Mass is celebrated Sunday evening.

Provision has been made for the celebration of the Sacrament of Penance, and for private confession.

The Bulletin and Notice Boards provide specific information concerning activities and hours of religious services.

Among projected religious programs: weekend retreats, discussion groups, a liturgical group to sponsor the University Mass.

A Calendar of Religious Events:

September:	23rd University Day
November:	All Souls Day: masses for the deceased of Saint
	Mary's.
December:	Religious Observance of the Patronal Feast, Decem-
	ber 8, the Feast of the Immaculate Conception.
May:	Baccalaureate Ceremony.

STUDENT AFFAIRS

Student Affairs comprise student activities of a non-academic nature and student personnel services.

This sector of the University includes the Offices of the Assistant to the President for Student Affairs, Dean of Men, Dean of Women, Student Health Services, University Counselling Service, Chaplains' Office, Director of Athletics, Deans of Residences and Financial Aid Officer.

The Student Affairs Department also cooperates with the Students Representative Council in compiling a list of off-campus housing which is made available to those students desiring accomodations of this nature.

The Assistant to the President for Student Affairs serves as liaison officer for the University to the Canada Manpower Centre.

The Dean of Men serves as liaison officer and University Representative to student government and student organizations.

The overall responsibility for student affairs is delegated by the **President** to the Assistant to the President for Student Affairs.

The Assistant to the President for Student Affairs main tasks are:

a) to promote the educational role of the University in nonacademic student activities;

- b) to further the physical, intellectual and moral well-being of the student body;
- c) to co-ordinate the activities of the various student personnel services and to supervise their development.

In the absence of the Assistant to the President for Student Affairs, the Dean of Men supervises Student Services.

The Dean of Men strives to promote the educational value of responsible student action in student self-discipline. He is available to all students for personal conferences and strives to assist students whenever possible.

STUDENT BEHAVIOUR

It is assumed that students come to the University for a serious purpose and will conform to duly established customs, policies, and rules. Students as adults must accept full responsibility for their actions. On the other hand the University cannot remain completely unconcerned about their actions. The University cannot be expected to prepare students for leadership without attempting to influence their spirit as well as their mind.

The University accepts the responsibility of creating on campus an atmosphere where students observe the elementary rules of good manners and show both self-respect and respect for others. It looks to them to display good taste in their dress, speech and general behaviour.

The University sees little need however to issue detailed regulations governing discipline since self-discipline should be the aim of each individual student. The University's few basic regulations are designed to create a favorable climate so that any individual may acquire personal self-control and build within himself a strong human spirit to guide his actions now and later as a member of society.

The University reserves the right to take appropriate action to prevent any individual or group from interfering with the learning process or to censure or penalize students who are guilty of breaches of school discipline. The registration of the student is considered an acceptance of regulations. It should be understood that the University reserves the right, not only to suspend or dismiss students, but also to name conditions under which they may remain in the University. Attendance at all lectures, seminars, and laboratory periods of any course in which a student is registered is mandatory. A student whose attendance has been reported as unsatisfactory by the professor may be debarred from tests and examinations, or required to withdraw from a course or degree programme by the appropriate Faculty Dean.

A candidate for a degree must be of good moral character and must have given general satisfaction throughout his course.

MEDICAL AND HEALTH SERVICES

The Nova Scotia Medical Services Insurance Plan came into effect on April 1, 1969. The details of this plan may be obtained through the Department of Health, Province of Nova Scotia. The plan covers all residents of Nova Scotia.

Most other provinces have Medical Services Insurance plans similar to the one in the effect in Nova Scotia and it is the responsibility of each student to insure himself in his home province.

All foreign students who are not eligible for coverage under the Nova Scotia Medical Services Insurance plan (e.g., those students who do not intend to remain in Nova Scotia for the duration of their university education) are covered by the University under a private Insurance Company.

The University has retained a medical doctor as Director of Medical Services. The doctor's office is located on campus, and his services will be available to all students.

The University accepts no responsibility for injuries or loss of time incurred by students while taking part in student activities.

All students are responsible for their own hospitalization expenses.

Notices

Balletin-Board announcements intended for students must be in good taste. They must be placed on the bulletin boards provided. They must, in addition, be approved by the Students Representative Council.

Use of Grounds and Buildings

The use of University grounds and buildings by students is regulated by administration of the University upon the recommendation of the Assistant to the President for Student Affairs. Requests must be made through the office of the Dean of Men.

STUDENT ORGANIZATIONS

The extracurricular organizations listed below are officially recognized by the University. Students who represent the University in any public activity, dramatics, debating, oratorical contests, or athletic competition, or hold office in any student organization, must be in good standing at the time of their election or appointment.

Students' Council

It aims at promoting the best interests of the students by sharing with the Faculty the responsibilities of University government in all non-academic matters and in accordance with the powers conferred by the President.

The Christian Action Movement

Formerly the Sodality of the Blessed Virgin Mary; this organization is for those students who wish to express their Christianity through social action, and who believe that for this action to be effective it should be united with prayer and a life centered around the Eucharist.

Alpha Sigma Nu

International Jesuit Honour Society. Membership is based on both high academic achievement and contribution to serious discussion on fundamental human questions.

Tau-Gamma-Sigma Society

Is restricted to students in the Faculty of Arts. Besides social and recreational activities the Society undertakes service projects for the welfare of the University and civic communities.

Sigma-Gamma-Phi Society

Is restricted to Science and Pre-medical students. Its functions are, in general, similar to those of the Tau-Gamma-Sigma Society.

Delta-Lambda-Kappa Society

Is open to students in the Faculty of Commerce. The aim of the **Society** is to formulate and implement a programme of an educational, **social**, and recreational nature for the benefit of the members.

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The Engineering Society

is restricted to Engineering students. Its activities correspond, in general, to those of the above societies of Arts, Science, and Commerce.

The Debating Society

is open to all students. Its activities include Intercollegiate and Interfaculty Debates, Radio Debates and Forums, etc.

Band

Open to all full-time and part-time students and faculty. Both Marches and Popular music will be played.

Amateur Radio and Electronics Club

Open to all students and faculty.

Psychology Club

The aim of this club is to promote general interest and education in the field of psychology and to provide a liaison between the psychology department and the psychology students. Informal in structure, this club serves both an academic and social function. Membership is open to any full-time student.

Political Science Association

The organization has an elected executive, nonexecutive posts, and committees at large. It is our aim to promote a social consciousness among our members to enable them to utilize their full potential as students and as citizens.

The Chemical Institute of Canada

(CIC) Student Chapter is open to all Chemistry and Chemical Engineering Students. Through affiliation with the National organization, an educational and social programme is provided together with opportunities for closer contact with the faculty.

MILITARY SERVICE SCHOLARSHIPS

1. The high professional ability required of present-day military officers demands the best in education and training. The Department of National Defence therefore sponsors programs of university education and leadership training for selected young men who have the potential to become officers in the Canadian Armed Forces. The admission standards are high, but for those who qualify the way is open to a challenging and rewarding career.

2. The programs sponsored are the Regular Officers Training Plan, (ROTP), Medical Officer Training Plan (MOTP), Dental Officer Training Plan (DOTP) and Reserve Officer University Training Plan (ROUTP). Training given under these plans is divided into two parts; normal attendance at university throughout academic year and military training each summer.

3. ROTP. This plan combines university subsidization with career training as an officer in the Regular Component of the Canadian Forces. Successful applicants are enrolled in the rank of officer cadet. They are required to maintain a good standing both academically and militarily while in the plan. All tuition and other essential fees are paid by the Department of National Defence. In addition the Officer Cadet receives an annual grant of \$125.00 to purchase books and instruments, and is paid \$193.00 per month for personal and living expenses. Free medical and dental care is provided. Annual leave (30 days plus travelling time) with full pay and allowances may be granted each year, usually after the summer training period. On graduation the Officer Cadet is promoted to the commissioned rank of Lieutenant.

4. MOTP. Sponsorship is provided under the Medical Officer Training Plan during the 2nd, 3rd and 4th year medicine and internship year. It consists of paid tuition, \$125.00 annual book and instrument grant, complete medical and dental coverage, paid holidays and monthly pay of 2nd Lieutenant \$389.00 in academic years and \$689.00 in the internship year. Three years military service in Canadian Armed Forces starting with the rank of Captain is required upon obtaining your licence to practice medicine.

5. DOTP. Sponsorship is provided under the Dental Officer Training Plan during the 1st, 2nd, 3rd and 4th year dentistry. Subsidization consists of paid tuition, \$125.00 annual book and instrument grant, complete medical and dental coverage, paid holiday and monthly pay of \$193.00 in 1st year, \$389.00 in 2nd year, 3rd and 4th year. Five years military service in the Canadian Armed Forces starting with the rank of Captain is required upon receiving your licence to practice dentistry.

6. ROUTP. This plan provides an opportunity for selected undergraduates to prepare themselves for promotion to commissioned rank in the Reserve Component of the Canadian Forces. They are selected during the first months of the University year by the local Reserve Unit and are enrolled as Officer Cadets in the Primary Reserve. Cadets receive pay for training completed at local Reserve Units during the academic year (up to 15 days) and at training bases during the summer (up to 16 weeks).

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7. ADMISSION REQUIREMENTS. An applicant must:

- a. be a Canadian citizen;
- b. be single and remain so until commissioned (ROTP only), MOTP, DOTP and ROUTP applicants may be married;
- c. by physically fit for enrolment in the Forces; and
- d. if ROTP, be between the ages of 16 and 21 on the first of January of the year he commences first year studies at University; if MOTP and DOTP, be between the ages of 17 and 38; ROUTP from 17 to 23.

8. HOW TO APPLY. Interested students are requested to contact one of the following:

Commanding Officer or	University Liaison Officer
Canadian Forces Recruiting Centre	Canadian Forces Base Halifax
Sir John Thompson Building	FMO
1256 Barrington Street	Halifax NS
Halifax NS	

for ROUTP - Commanding Officer of your local reserve unit.

The Department of Manpower and Immigration

Canada Manpower Division — in co-operation with Saint Mary's University, maintains a full-time Student Placement Office on the campus on a year-round basis. The purpose of this office is to assist graduates and undergraduates to obtain permanent, summer or part-time employment, and to assist local and national employers who wish to recruit at Saint Mary's University.



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Financial Aid

Scholarships and Bursaries

Francial assistance is available to students at Saint Mary's University from three main sources: scholarships, bursaries, and Canada Student Leans. The scholarships and bursaries are administered directly by either the donor or the Director of Financial Assistance at Saint Mary's University. Loans are administered by the student's provincial preferences in accordance with the Canada Student Loans Plan.

All financial aid is dependent on a student's satisfactory academic achievement when entering and while studying at the university. The award of scholarships, and in some instances of bursaries, as well as the renewal of such awards, is dependent on excellence in academic achieve-

FUNDS ADMINISTERED BY SAINT MARY'S UNIVERSITY

L Scholarships

Scholarships are awarded annually to students of outstanding academic achievement when entering or while studying at the university.

Awards of up to \$1,000 are offered to students of excellent academic achievement when entering the university. Such students who wish to make application for scholarships must have an average of 80 per cent or over in their high school work. In addition, special awards are made annually to leading students in the graduating classes at Saint Patrick's High School, Halifax, Nova Scotia, Saint Malachy's High School, Saint John, New Brunswick, Gonzaga High School, St. John's, Newfoundland, and Brother Rice High School, St. John's, Newfoundland. An annual award is also given to a Catholic student from Moneton, New Brunswick.

Students who have completed one or more years in a university are also enough they were not given an award at entry. All students who have an average of at least B in their university work are eligible to apply for these awards.

Each scholarship is awarded on merit for one year only. However, scholarships will be renewed each year provided academic achievement is maintained. Applications for awards or renewal of awards must be made by June 30th each year.

Included in the scholarships administered by Saint Mary's University are the following endowed gifts:

Brother Stirling Scholarship (\$600):

Donated by Mr. John H. Dickey. Open annually to an entering student.

Ashwood Scholarship (\$200): Open annually to all students.

Flinn Scholarships (Two awards of \$250): Open annually to all students.

Mary C. Daley Scholarship (\$100): Awarded in alternate years. Open to all students.

Eleanor M. Florian Scholarship (\$300): Open annually to all students.

Duncan W. Lynch Memorial Scholarship (\$400): Open annually to a Catholic student from Dartmouth.

John Glenister Memorial Scholarship (\$150): Open annually to all students.

Nova Scotia Light and Power Company Scholarship (\$300): Open annually to a Science or Engineering student.

James E. Donohue Memorial Scholarship (\$100): Open to students in Engineering and awarded in alternate years.

Nova Scotia Teachers' College Scholarship (\$500): Open annually to graduates of the Nova Scotia Teachers' College.

II. Bursaries

Students giving satisfaction in academic work, though not of scholarship standing, are given financial aid through bursaries and assistantships. In these cases the criterion for an award is financial need. As part of this program the University assists students at the Bishop Burke House in Halifax in the payment of their tuition fees and remits part of the charges to residence students from parishes in the Archdiocese of Halifax. In addition, a number of positions as course readers and laboratory demonstrators are open annually to Junior and Senior students; remuneration is based on hours of employment. All inquiries concerning bursaries and assistantships should be made to the Director of Financial Assistance.

Included in the bursaries administered by Saint Mary's University are the following endowed gifts:

Rebecca Cohn Memorial Bursary (\$100):

Open annually to all students.

Bernard Zwicker Memorial Bursary (\$150):

Donated by Mr. and Mrs. Ivan Zwicker in memory of their son. Awarded in alternate years commencing 1969-70. Open to a student in the Commerce Faculty.

Lord Nelson Hotel Ltd. Bursary (\$250):

Preference will be given to applicants from the Atlantic Provinces. Open annually to students in either their Freshmen or Sophomore year.

The Institute of Chartered Accountants of Nova Scotia Centennial Bursary:

A bursary to be held by a student in any faculty, under the following conditions: the student must be a resident of Nova Scotia wishing to further his postgraduate education by entering the accounting profession with the intention of becoming a Chartered Accountant in Nova Scotia; the student must be in either of the last two years of his course; ability and financial meed are taken into consideration in making the award.

The Birks Family Foundation Bursaries:

The Birks Family Foundation has established a plan of annual contributions to the Student Aid Fund of recognized Canadian miversities. The bursaries are available to all full-time students recommended by the university. The numbers and amounts of such awards may vary annually, depending upon the funds available from the Foundation for the purpose.

FUNDS ADMINISTERED BY THE DONOR

L Scholarships

Scholarships are offered in varying amounts up to full coverage of tastion fees. They include:

School of Education Scholarships:

The province of Nova Scotia, through arrangement with the University, offers a number of scholarships to university graduates taking the degree of Bachelor of Education. Application for these scholarships should be made in writing to the Dean of the School of Education, Saint Mary's University.

The Canadian Mathematical Congress Scholarships:

The Canadian Mathematical Congress offers a number of scholarstops for students of Grade XII in the Nova Scotia schools on the basis of a competitive examination usually held early in May of each year. The amount of each award is determined by consideration of financial need based upon applications from the leading candidates. These are tenable at any university in Canada. Further information is available from the guidance departments of the various high schools.

Imperial Oil Ltd. Scholarships:

Imperial Oil Ltd. offers payment of tuition and other compulsory fees to all children or wards of employees and annuitants who proceed to higher education courses. The courses must be taken at any Canadian university or other approved institution of higher learning. Each award is tenable for a maximum of four years. To be eligible a student must attain an average mark of 70 per cent in the appropriate secondary school examinations in the subjects required for admittance to the approved institution. Further information and application forms may be obtained from the Secretary, Committee on Higher Education, Imperial Oil Limited, 111 St. Clair Avenue West, Toronto 7, Ontario.

General Foods Scholarships:

General Foods Limited has established two scholarships in the sums of \$2,000 (over a four year period). These awards were first presented in 1965 and 1966, and thus are again being made in 1969 and 1970. For further information contact the Director of Financial Assistance at Saint Mary's University.

Joe Gannon Memorial Scholarship:

Valued at \$500, and awarded to the son, daughter or legal ward of a trade unionist who is a member of a union affiliated to the Nova Scotia Federation of Labour. Applications should be addressed to Selection Committee, c/o Nova Scotia Federation of Labour, 530 Roy Building, Halifax, Nova Scotia.

Municipal School Board, Halifax County, Scholarships:

Four awards of \$100 are made annually to students who have been accepted by the Education Faculty of a Maritime university. Restricted to residents of Halifax County. Further information may be obtained from Municipal School Board, P.O. Box 90, Armdale, Nova Scotia.

Canadian University Students' Scholarships:

Annual awards by Canadian University Students enable specially selected students to take one year of their course at a university in a different part of Canada.

Many parishes and parish organizations offer scholarships to deserving students. Students interested in such scholarships should make inquiries from their parish or the parish organization concerned. These awards include:

Saint Agnes Parish Holy Name Society Scholarship (\$100).

Saint Joseph's Parish Scholarships: Two awards, one of \$100 and one of \$150.

Saint Mary's Basilica Parish: The Monsignor Carroll Memorial Scholarship (\$300).

Saint Peter's Parish Holy Name Society Scholarships: These awards vary in number and value.

Saint Rose of Lima Parish Holy Name Society Scholarship (\$100).

Saint Stephen's Parish Scholarships: Four awards of \$100.

Saint Stephen's Educational Association Scholarships: Three awards of \$100.

The Home and School Association of various schools offer scholarships deserving students. Students interested in such assistance should seek information from their respective Home and School Associa-These awards include:

Bedford Home and School Association Scholarship (\$100).

Oxford Home and School Association (\$50).

Saint Thomas Aquinas Home and School Association Scholarship (\$100).

E addition, many councils of the Knights of Columbus offer schemeships to deserving students. Students interested in such scholardars are advised to direct inquiries to the council in their area. These available include:

Knights of Columbus Council 1097 (Halifax) Scholarships: Seven awards of \$150.

Knights of Columbus Council 2181 (Yarmouth) Scholarship (\$200).

IL Bursaries

Assistance for students in financial need is available from various sources, including the following:

The Birks Foundation Bursaries:

Each year the Birks Family Foundation pays the tuition and fees of all children of its employees in attendance at Canadian universities. On or before September 30 of each year the Birks employee should file with the Foundation an Application of Intent to enroll his son or daughter in a university of his choice in the ensuing year. In the case of a student who wishes to continue his studies on a Birks grant, notification should be given to either the Foundation or the Director of Financial Aid at the end of each school year.

Royal Canadian Legion Bursaries, Nova Scotia Command:

Four bursaries, valued at \$350 and \$400, are offered annually. Established to assist dependents of veterans to further their education. Applications available from L.M. Rhodenizer, Education Committee, New Glasgow, Nova Scotia.

Children of War Dead (Education Assistance) Act:

This Act provides fees and monthly allowances for children of veterans whose death was attributable to military service. Inquiries should be directed to the nearest District Office of the Department of Veterans Affairs.

I.O.D.E. Second War Memorial Entrance Bursaries:

One for each Province, \$400 a year for four years. Awarded to children of deceased or permanently and seriously disabled Canadian men and women of the services who served in World War II. Further information is available from I.O.D.E. Educational Secretary, 301 Spring Garden Road, Halifax, Nova Scotia.

Provincial Chapter of Nova Scotia, I.O.D.E.:

A number of bursaries are awarded to university students in need of financial assistance. Preference is given to first-year students. Further information is available from Provincial Educational Secretary, I.O.D.E., 301 Spring Garden Road, Halifax, Nova Scotia.

The Post Discharge Rehabilitation Grants:

Ex-service personnel seeking educational grants should contact the Director of Financial Assistance at Saint Mary's University. If accepted to the University, they will be given a letter with which to support their application to the Department of Veterans' Affairs.

FUNDS ADMINISTERED BY THE PROVINCIAL GOVERNMENT

The University cooperates fully with both the Canada Student Loans Plan and the Nova Scotia Bursary – Canada Students Loans Frogramme.

Canada Students Loans Plan

The Canada Student Loans Plan was introduced by the Federal Government as a broad programme to assist students who in the absence of a loan, would be unable to pursue full-time post-secondary studies at a university or other educational institution. Canada Student Loans, available only on the basis of Certificates of Eligibility issued by the appropriate authority (Issuing Agency) for a Province, may be made by any branch of the chartered banks and by certain designated credit unions with the guarantee of the Federal Government.

Applications for Certificates of Eligibility must be made to provinces participating in the plan, and decisions on individual applications are by the provincial appropriate authority (Issuing Agencies). Sudents applying for certificates who meet residence and other reminements must also demonstrate that the financial means available them from all other sources are insufficient so that a guaranteed loan meeded. In no case will a loan for an academic year exceed a mean of \$1,000, or total loans exceed \$5,000 during the indent's academic career. Provincial authorities may issue Certificates Eligibility under the plan up to the limits of provincial allocations in each loan year.

becomes under the plan are required to repay principal and pay interest, but no payments are required as long as they are full-time indents at a specified post-secondary educational institution and for months thereafter; interest during this period is paid by the Federal Government on behalf of the student. After a student's interest-free period has expired, he is required to make regular monthly payments include re-payment of principal and interest on the outstanding between takes his loan out. The number of years over which a loan may be repaid depends on the loan amount and other considerations, but may not exceed ten years from graduation.

A statient should apply for a loan under this plan only for the funds medicated to enable him to continue his studies and in doing so he should pre responsible consideration to the repayment obligations he is essentiate a student who actually borrowed the maximum of \$5,000 would, for instance, be obligating himself to pay, after the expiry of his interest-free period, about \$58 each month until ten years after he leaves the university.

Any student needing a Loan should apply to the appropriate authority in the province in which he officially resides both for full information and application form. Enquiry should be directed to one of the following addresses:

Nova Scotia	Canada Student Loans Committee, Department of Education, Box 578, Halifax, Nova Scotia.
Alberta	Students Assistance Board, Department of Education, Administration Building, Edmonton, Alberta.
British Columbia	The British Columbia Student Aid Loan Committee, c/o Department of Education, Parliament Buildings, Victoria, British Columbia.
Manitoba	Department of Youth and Education, Student Aid Officer, 1181 Portage Avenue, Winnipeg 10, Manitoba.
New Brunswick	Department of Youth, Centennial Building, Fredericton, New Brunswick.
Newfoundland	Canada Student Loans Authority, Department of Education, Confederation Building, St. John's, Newfoundland.
Northwest Territories	Director of Education for the Northwest Territories, Department of Education, Yellowknife, Northwest Territories.
Ontario	Department of University Affairs Student Awards Officer, Suite 700, 481 University Avenue, Toronto 2, Ontario. 24

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Prince Edward Island

Ouebec

Biskatchewan

Canada Student Loans Committee, Department of Education, Charlottetown, Prince Edward Island.

Office of Student Aid Services, Department of Education; Parliament Buildings, Quebec 4, Quebec.

Department of Education, Avord Tower, Victoria Ave. & Hamilton Street, Regina, Saskatchewan. mit it

Yekon Territory

The Students Financial Assistance Awards Committee, Superintendent of Education, Box 2703, Whitehorse, Yukon Territory.

Scotia Government Bursary – Canada Student Loans Programme rogramme combines loan assistance, available through the Canada Scotia. It is designed to supplement the resources of a student incking such aid, would be unable to proceed to universty studies. The ratio of grant to loan is determined in accordance with a formula the Province of Nova Scotia.

The Canada Student Loan portion of the award is guaranteed by the Federal Government. No interest or payments on principal are required the period that the student is in full-time attendance at the university and for six months thereafter. The interest during this period is paid by the Federal Government.

The maximum amount available under the Canada Student Loans Plan S1000, in any one year, and the total indebtedness permitted is S5000. With the addition of free grants from the Province of Nova Scota, the maximum assistance a student receives in any year may exceed S1,000, depending on the formula in effect in the year of application.

Exercise under the Nova Scotia Bursary – Canada Student Loans **Exercise available** to all residents of Nova Scotia. A student from **Exercise province must apply** for assistance to the government of his **exercise available** forms can be obtained from the Supervisor of Student Aid, Department of Education, Box 578, Halifax, Nova Scotia.

Education Fund for Negroes

This fund was established in April, 1965, for the purpose of assisting promising Negro students to continue their education in high schools, vocational schools, technological institutes, nursing schools, and universities.

Negro students who register at a recognized university or college are eligible for assistance under the terms of the Fund. Inquiries should be directed to Mr. Harlan Cox, Chairman, Education Fund for Negroes, Box 578, Halifax, Nova Scotia. Mr. Cox's office will also advise Negro students of other sources offering assistance in meeting university expenses.

Post Graduate Scholarship Assistance

Students whose university performance gives promise of successful graduate studies should seek advice on availability of fellowships and scholarships.

Interested students should contact the Office of Graduate Scholarships in the student center.

Financial Information

Fees Payment of Fees Withdrawal and Refunds

Fees

Tuition Fees:

Full-Time Students

Students Registered for Three or More Courses)	9
These fees include all regular charges of the University	
for registration, tuition, laboratories and Library	. \$560.00
Other Fees: (Student Council,	
Amietics, Health Services)	45.00
TOTA	L \$605.00

a student taking a course over the normal load will be charged an approximately size of the state of the stat

Part Time and Evening Division:

Per course	\$120.00
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Special Fees

Late Registration: \$20.00 and an additional \$5.00 per day after Sectember 14th.

Genduation: with Degree	\$20.00
with Diploma	15.00
in absentia (additional fee)	15.00
Septimental or Special Examination	15.00
As an outside centre (additional fee)	5.00
Official transcript (after first copy)	1.00

Students' Council Fee

the student body, all full-time students are support of student projects. This fee is the Students' Council and is included in full-time the students the heading of Other Fees.

Residence Fees

The residence fees are effective for the full academic year, beginning on the day before registration and ending on the day after the final examinations, but excluding the Christmas recess.

Students who are accommodated in the low-rise residence building will pay a room and board fee, as follows:

Single accommodation		•					•	•				•		•			•		\$975.00
Double accommodation		•	•	•	•	•		•	•	•					•	•			900.00

No reduction of these rates is allowed for meals not taken at the University.

The high-rise residence building offers apartment-type accommodation, including facilities for meal preparation. Each apartment consists of a living room, kitchenette, two double bedrooms, and a bathroom. An apartment is designed to accommodate four students. Occupants of these suites will pay a fee covering room rent only.

Rental fee, per student \$500.00

Students who enter residence before the beginning of the academic year or who remain in residence after the end of the academic year or during the Christmas recess will be charged a room rental of \$2.50 per day. Meals will be obtainable at the University cafeteria at the rates currently in effect.

The University may require students whose normal residence is beyond reasonable commuting distance from the University to live in the residence facilities provided by the University.

The University reserves the right to make changes without notice in its published schedule of tuition, residence, and other fees.

Payment of Fees

As first term fees, students are required to make an initial payment or before the date of fall registration. The amount of this initial payment is:

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Second term fees payable on the dates of re-registration, January

Statistics will not be considered registered until the required fees there been paid or arrangements for payment made with the Business office. The University may assess a penalty of \$20.00 in cases where the university may assess a penalty of \$20.00 in cases where the university may assess a penalty of \$20.00 in cases where the university may assess a penalty of \$20.00 in cases where the university may assess a penalty of \$20.00 in cases where the university may assess a penalty of \$20.00 in cases where

Experience who have been awarded scholarships and bursaries by the **experience and deduct one-half** their value from first term fees.

Residence fees are payable in advance of registration. First-term

Law-rise, single accommodation	. \$487.50
Low rise, double accommodation	. 450.00
Tigh-rise, soom only	. 250.00

Second term residence fees are payable on or before the student's even to residence after the Christmas recess.

The University makes a \$5.00 charge for cheques that are returned back marked "Not Sufficient Funds", and may cancel the support of any student who issues such a cheque in payment of any

The second complete the arrangements before registration there should complete the arrangements before registration to be a certificate of Eligibility may be obtained from the second authority (in Nova Scotia, The Department of Add Section, Halifax, N.S.). If these forms are filed the active Provincial authority during the summer months the the active to obtain his Certificate of Eligibility and the active to obtain his Certificate of Eligibility and the active of ficial on the Confirmation of Enrolment form the scale to obtain his loan without delay. In cases where Canada Student Loan applications are still pending at registration time the student will be expected to effect payment of the required fees from his own resources.

A student who applies for residence accommodation must remit a deposit of \$50.00 with his application. If a residence application is accepted, the deposit is retained as a caution deposit against loss or damage other than normal wear and tear. The deposit or any remaining balance will be returned to the student's home address by mail shortly after the end of the academic year. The reservation deposit will be refunded if notice of cancellation is received before August 15th.

Students will be charged for damage to University property.

The University may cancel the registration of any student whose account is in arrears, may deny admittance to examinations, and withhold any report, degree, diploma, certificate, transcript, or testimonial until a student's financial account has been satisfactorily settled.

Cheques and money orders should be made payable at par to Saint Mary's University and addressed to the Business Office, Saint Mary's University, Robie Street, Halifax, Nova Scotia.

WITHDRAWAL

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When a student withdraws from the University he must at once notify the Registrar, in which event this notification will be taken as the official date of withdrawal from the University.

A proportionate refund of tuition and residence fees may be granted to a student who withdraws from the University for a reason approved by the proper authorities if application is made in writing to the Business Office. Students withdrawing at the beginning of a month or at any time within the month are charged for the whole month. First term withdrawals are subject to a minimum charge of \$25.00 for tuition and \$50.00 for residence.

A student is accepted for residence on the understanding that he will remain in residence for the full academic year. A refund is not granted to a student who withdraws from residence unless or until an acceptable substitute has assumed the balance of the residence fees for the session.

No refund of any fee will be granted to a student who withdraws after November 15th for the first semester, or after February 28th for the second semester.

Admission Information

Application, Admission Requirements, Admission To Advanced Standing, Registration

For information on admission to Graduate Studies see page 55.

APPLICATION

All contempondence concerning admissions should be addressed to: The Director of Admissions, Saint Mary's University, Halifax, Nova

Application forms may be obtained by writing to the Director of Applications Applications should be forwarded to the Admission's office and inter than August 15. The Application form must be accompanied by the following:

- **Provincial or** Accredited School Certificates showing all **multiculation credits.** Senior Matriculation certificates should be sent as soon as they are available.
- The completed Principal's Confidential Report Form must be mailed directly to the Director of Admissions by the Principal or Guidance Officer.
- Students who have attended any University or College must request that institution to send an official transcript directly to the Director of Admissions, Saint Mary's University. (See Admission of Transfer Students)
- A \$5.00 fee must accompany this application. Your application will not be processed until your fee is received.
- A recent photograph. This must be a head and shoulders photograph of good quality and suitable for possible newspaper reproduction.
 - All overseas students whose mother tongue is not English are required to take the English Language Test administered by the University of Michigan. The English Language test is the responsibility of the student who must apply directly to the:

The English Language Institute Testing and Certificates The University of Michigan, Ann Arbor, Michigan, U.S.A.

section wishing to apply for on-campus residence accommodation acceptance by the University, an "Application for

Residence" form, from the Admissions office. The application with a \$50.00 deposit, serving as both a reservation and caution deposit, should be forwarded to the Dean of Men, Saint Mary's University, and students are asked to note that no application for residence can be considered, unless accompanied by this deposit. The sum will be returned, either in full, or in part, one week after the end of the academic year, but will not in any event, be applied toward tuition or residence fees. In the case of accommodation not being available, or if the reservation is cancelled before August 1st, the deposit will be refunded in full. It is not refundable after this date.

ADMISSION REQUIREMENTS

To be admitted to Saint Mary's as an undergraduate a candidate must offer Junior Matriculation, 50%, Nova Scotia Grade XI or equivalent, in English, Mathematics and any three from History, Economics, Physics, Chemistry, a language other than English, Biology, Geography, or Geology. An average of 60% is required.

Candidates for Science and Engineering should offer Chemistry, Physics, and/or Trigonometry and marks in Science and Mathematics should be above average.

The University reserves the right to admit any student who gives promise of success in University studies even though he does not possess all the normal entrance requirements.

Saint Mary's University DOES NOT require S.A.C.U. test scores as one of the criteria for admission. Students who have written S.A.C.U., C.E.E.B. or other standardised tests should submit the results for evaluation.

TRANSFER STUDENTS

Application for admission from students wishing to transfer from another University or College will be considered only for the year and session in which they are eligible to register in their former University.

Students who have been away from University studies for a number of years may be considered for admission.

A transfer student completing his first degree must complete at least ten courses at Saint Mary's to be eligible for a Saint Mary's degree.

Advanced standing for work done at other universities will be considered on the basis of individual courses.

A student holding an undergraduate degree shall be required to satisfy the requirements of the Faculty in which he pursues his second degree, and graduate or professional.

CEPTABLE CERTIFICATES

supported as credit toward the entrance resciencests if such marks are granted by any one of the following examining bodies.

- A Nova Scotia Department of Education Grade XI university program certificate.
- a None Scotia Department of Education Grade XII (Provincial experimentions) in the University preparatory program.
- A Provincial Certificate for the provinces of New Brunswick, sense and from provinces that offer provincial
- Encoder certificates issued by Education Departments of other THE REAL PROPERTY AND INCOME.

EDUTY AL ENT CERTIFICATES

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intersection with 16 points, (4 in English, 2 in History, 2 in and 7 other academic subjects). The student service a High School Transcript and the test results of the CRER Wer SCAT.

Control Kingdom, West Indies and West Africa: For a structure at the Junior Matriculation level the G.C.E. with passes and a section of the section of subjects. English and Mathematics are required Station of the local division of the local d

Story Long.

ALC: NO.

Contracts of Education as above or University of Hong Kong Certificate on the same basis as the G.C.E.

TO ADVANCED STANDING

and seach costs (fire courses) will be granted a student registering in and a sector Matriculation Provincial certificate (Nova sector and the sector and the sector with a pass standing (50%) in each of sector and a general average of 10% above pass (60%).

Interest and the from Mathematics, Physics, Chemistry, Biology, Bergereiter, History, Ancient and Modern Languages.

This advanced standing makes graduation with a general degree possible in three years.

2. Science and Commerce

A full year's credit (five courses) will be granted a student registering in Science or Commerce, who presents a Senior Matriculation certificate (Nova Scotia Grade XII) or equivalent with a pass standing (50%) in each of the following subjects, and a general average of 10% above pass (60%).

- i English
- ii Mathematics
- iii Three from Physics, Chemistry, Biology, Geology, Geography, History, Ancient and Modern Languages.

This advanced standing makes graduation with a general degree possible in three years.

3. Engineering

A student registering in Engineering who presents a Senior Matriculation Certificate, Nova Scotia Grade XII or equivalent, with a pass of 65% will be able to complete the Engineering Diploma requirements in three years and (subject to the fulfillment conditions) receive the Bachelor of Science Degree.

- i English
- ii Mathematics
- iii Physics
- iv Chemistry
- V One of History, Geography, Biology, Geology, Ancient or Modern Languages

The Diploma in Engineering admits the student into any of the departments of the Nova Scotia Technical College without an examination to the final two years of a five year program leading to the degree of Bachelor of Engineering.

4. All Faculties

United Kingdom, West Indies, West Africa and Hong Kong students may be granted advanced standing on the presentation of G.C.E. certificates in five subjects at the ordinary level of which two are English and Mathematics and in addition at least three subjects at the advanced level. The grade of marks obtained must average less than four. ed standing makes graduation with a general degree possible s.

and Commerce

credit (five courses) will be granted a student registering in Commerce, who presents a Senior Matriculation certificate a Grade XII) or equivalent with a pass standing (50%) in following subjects, and a general average of 10% above pass

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natics

from Physics, Chemistry, Biology, Geology, Geography, /, Ancient and Modern Languages.

d standing makes graduation with a general degree possible s.

ring

egistering in Engineering who presents a Senior Matricucate, Nova Scotia Grade XII or equivalent, with a pass of able to complete the Engineering Diploma requirements in and (subject to the fulfillment conditions) receive the science Degree.

natics

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f History, Geography, Biology, Geology, Ancient or Languages

a in Engineering admits the student into any of the of the Nova Scotia Technical College without an examinfinal two years of a five year program leading to the degree f Engineering.

Ities

lom, West Indies, West Africa and Hong Kong students ited advanced standing on the presentation of G.C.E. In five subjects at the ordinary level of which two are Mathematics and in addition at least three subjects at the el. The grade of marks obtained must average less than

Partial Credit (Fewer Than Five Courses): All Faculties

Bernel credit (fewer than five courses) may be granted on the basis of Senser Matriculation standing under the following conditions:

- These credits must be obtained before courses at the University are begun.
 - The student must have a mark of 60% in each subject for which be in seeking advanced standing. A student wishing to take further courses in Mathematics or Science must have a mark of 75% in that subject.

at it

Courses taken at other institutions or by Senior Matriculation after first registration at Saint Mary's will not be credited by the University unless the student has obtained prior, written approval of the Dean of Faculty.

Sen page 39.

REDISTRATION

Example 1 take place on the dates and times set forth in the **constant Calendar. Students should** follow exactly the directions for **Procedure supplied** by the Office of the Registrar. No **constant be allowed for a course** for which the student is not regularly **constant**.

the part of registration to meet initial obligations with the Office of

academic year are required to present a certificate of **Students participating** in major sports may also be **students a similar certificate**.

Lete Pregistration

consistent of the second of th

Change in Registration and Dropping Courses

and the second of the limitial registration is permitted only with the second of the Dean of the Faculty concerned.

Students who drop a course without Students who drop a course without Students who drop a course without Students who drop a course without University records. A note of 'W' signifies – Permitted course Withdrawal. Should registration prove insufficient, the University reserves the right to cancel any listed course.

Academic Information

Exercise tions and Grades Evening Division Adult Study Series The Atlantic Summer School For Advanced Business

Examination and Grades

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The subsetsity's **policy** in respect of the evaluation of a student's **designed** to provide flexibility in the methods employed **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for continuing evaluation **a statistic and as far** as possible to provide for contin a statist

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the method of evaluation in any course is determined by the mender of faculty responsible for that course, subject to the perpendent of the appropriate department and faculty dean.

after the beginning of any course the precise procedures after the beginning a student's progress in that course, and measuring a student's progress in that course, and the number and form of examinations and other criteria of evaluation.

The following letter-grade system is employed to evaluate progress in a

A - mostent, superior	00%
	84%
60% -	69%
below average, but passing	59%
- unsatisfactory progress, no credit given	50%
2 – adisfactory progress, credit given	
- course withdrawal with evaluation of unsatisfactory progress	

aground - segrotat standing

Succemental and Special Examinations

- A student is eligible to take a supplemental examination covering the same course materials as that contained in any given course on the written recommendation of the professor responsible for the course.
- Such recommendation must be submitted to the Registrar's office a commendation with the final grade established at the end of a course; and supplemental examinations are taken at the time in September prescribed in the university calendar.
- 3. To be eligible to write any supplemental examination for which be is recommended, a student must have no more than two final

course grades of unsatisfactory (F) during the academic year for which the supplemental examination is to be taken.

- 4. Supplemental examinations are graded either P (satisfactory) or F (unsatisfactory).
- 5. Only one supplemental examination is permissible in any course
- 6. No more than three full courses passed by supplemental examinations will be credited towards any degree or diploma.
- Applications for supplemental or entrance examinations must be made to the Registrar's office no later than July 15.

Special examinations are written outside the times assigned for regular and supplemental examinations, and are granted rarely and only for extraordinary reasons by the Committee on Academic Standing.

Failures:

A student who defaults any final process of evaluation – examination assignment, etc. – is considered to have failed the course and receives a WF (withdrawal failure) notation of his record for that course. To receive credit in such course the student must repeat the course.

A student who obtains an evaluation in any course deemed by the professor offering the course to be so unsatisfactory as to preclude any reasonable prospect of achieving success in the course can with the approval of the departmental chairman and faculty dean be asked to withdraw from the course, and will receive a grade of WF.

A student who withdraws voluntarily from any course at a point in the course where his formal evaluation is unsatisfactory (F) will receive a notation of WF on his record for that course.

A student receiving a final evaluation of unsatisfactory (F) in a course which involves both lectures and laboratory work must repeat both parts of the course or an equivalent approved by the department concerned to receive a credit in the course.

A full-time student who, in his first year, fails to pass at least two courses, must withdraw from the University for one year. Such a student may be re-admitted on academic probation following this one-year suspension.

Default of any formal process of evaluation in a course for medical reasons must be certified medically in written form with the Registrar's Office within one week of the default.

Augrotat Standing

EXAMPLE 2 Provides for a student receiving credit in a course in the student has been unable, for medical reasons **example 2 counds, to** complete a final formal process of **a professor may award** aegrotat standing after satisfactory **to be the supplied to cover** the absence. Such evidence must be **Registrar's office** no later than one week after the

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Academic Probation

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the placed on academic record or progress is judged to be because of poor attendance, assignments, or other the placed on academic probation. If the record continues the student may be dismissed from the University because of Faculty. A person who is on academic probation is because at any time at the discretion of the Dean of

decisions taken on academic regulations may be committee on Academic Standing.

PECIAL PROGRAMMES

EXAMPLE DIVISION AND SUMMER SESSIONS

Arts. Science and Commerce, are offered at the second sec

September, at the time the Day and end with the April examinations. Two and the sector are held, the First Session beginning and sector are held, the First Session beginning and sector are held, the First Session beginning the courses offered in the Evening Division and Summer Sessions are available from the Director's Office, the former by August 1st and the latter by January 31st.

Students registered for degrees at Saint Mary's may take two courses each year in the Evening Division and one course per Summer Session Students wishing to take courses at Saint Mary's for credit at another university must submit written permission from the appropriate authority at his or her university along with the application for a course or courses.

Students who expect to commence part-time studies in September or during the Summer Sessions should in the former case contact the Director not later than August 15th and in the latter case not later than April 1st. All inquiries should be addressed to the Director, Evening Division and Summer Sessions, Saint Mary's University, Halifax, Nova Scotia.

Adult Studies Series

In 1951, Saint Mary's University Adult Studies were instituted as a cultural service to the Halifax community. Lectures, academic in subject and treatment, are offered regularly to the general public on a variety of topics. Their purpose is to extend familiarity with humanistic learning, awaken critical attitudes, and stimulate a deeper sense of values consistent with our western heritage.

Usually lectures are given in series, ten lectures devoted in one semester to a particular topic.

Inquiries for information should be addressed to The Director, Adult Studies.

The Atlantic Summer School for Advanced Business Administration

This summer school, sponsored by the Association of Atlantic Universities, offers a five weeks' course for executives from mid-June to mid-July. The course is designed to benefit both university and non-university men. It is desirable, however, that students have from five to ten years of experience in the management of men or in the conduct of technical or staff functions at a fairly responsible level.

Information and application forms may be obtained from Dean H.E. Dysart, Director, Atlantic Summer School for Advanced Business Administration, University of King's College, Halifax, N.S.

Faculties and Courses

Engineering Pre-Professional Courses Education

Course Numbering System

course numbering appearing in this Calendar took system, courses numbered from 100 to 119 are courses, normally taken by students entering from Nova courses normally taken by students entering from XII or equivalent, and are Sophomore level courses. All or equivalent, and are Sophomore level courses. All or equivalent, and are Sophomore level courses. are normally prerequisite for admission to further taken in the Junior and Senior years. Courses taken in the Junior and Senior years. The 400 honours courses normally taken in the fifth year The 500 level courses are graduate courses.

Comment Eachelor of Arts - The General Program

- **Example to the regulations set** forth in this calendar, the student **example te the equivalent** of 20 full courses following junior **example to the equivalent** of 20 full courses following senior matriculation.
- The student will normally take the student will normally take the student's major concenter the student's major concentration beyond the Freshman state.
- **Classics**, Economics, English, French, German, **Latin, Mathematics**, Philosophy, Political Science, **Sociology, Sociology, Spanish**, Theology.
- Each candidate for the B.A. must receive credit for:
 - tal one university course in English
 - (b) one course in History
 - (c) one course in Philosophy

- (d) one course in a Social Science (Economics, Political Science, Psychology, Sociology)
- 5. A student who chooses a major concentration must complete na fewer than five courses in one subject. Courses numbered below 120 will not count. His program will be supervised and approved by his department.
- 6. A student who does not choose a major concentration must have his program supervised and approved by a member of Faculty. A copy of such a program must be filed in the office of the Dean at the beginning of each academic year and will be subject to his approval. At least 50% of a non-major student's elective work must be done at the 300 level or above.

Additional Information:

Arts and Commerce Course:

Students who wish to obtain the Bachelor of Commerce degree in one year following the Arts degree will consult the Dean of Commerce regarding their program.

An Arts student who intends to do graduate work in Business Administration may, with the permission of the dean of Arts, take courses in Accounting and Business Administration in his under graduate Arts program.

SCIENCE

The requirements for the general degree of Bachelor of Science, applicable to students who registered in September, 1966, or later, are as follows:

- 1. Subject to the regulations set forth in this calendar, the student must complete a total of 20 full courses following junior matriculation, or 15 full courses following senior matriculation.
- 2. During the regular academic year, the student will normally take five full courses. The department of concentration will normally govern registration for the Sophomore and subsequent years.
- 3. Concentrations for the science degree may be taken in Biology, Chemistry, Geology, Mathematics, Physics, Psychology.

4. The Freshman Year:

The student must complete five courses from those numbered 100-119 as follows:

Three required courses: one English, one Mathematics, and the story, or Economic History.

Two elective courses to be chosen from the courses open to Freshmen in the following subjects: Biology, Chemistry, French, Geology, German, Latin, Physics, Spanish, Theology.

The Sophamore Year

The student must choose his subject of concentration and seek registration advice from the department of that

- The student must complete:
 - one course in Philosophy
 - (ii) one course each (at the 120 level and above) in two of the following: Biology, Chemistry, Geology, Mathematics, Physics, Psychology.
 - (iii) one course in Mathematics other than in (ii)
 - one elective from the Humanities, preferably English.

The Autoice and Senior Years:

To set student must complete:

Sector six courses beyond the sophomore level in two **sectors from** the following: Biology, Chemistry, Geology, **Sector and Sector** Physics, Psychology or Engineering in the **of students** following Schedule B under Engineer**pages 27 and 28.** Students who wish to offer a subbegun only in the junior year may, by exception, **the introductory** course in that subject as one of **the four courses** required in (b).

Three or four courses in the Humanities or Social Sciences. At least one of these courses must be a second course in the subject and be beyond the sophomore level.

core course from the Social Sciences (Economics, Political Science, Psychology, Sociology, Anthropology).

Engineering and Science Course

Example 1 when have obtained the Diploma of Engineering under **Example 1** may proceed to the degree of Bachelor of Science on **Example 1** a further year of study. The program of this additional (fourth) year will include: a course in Mathematics, an elective from the Humanities,* and any three from Physics, Chemistry, or Mathematics, or three courses in Geology.

All programs must have the approval of the Dean of Science. *This must be a course in Philosophy unless the student has already a credit in Philosophy.

COMMERCE

The program of study leading to the degree of Bachelor of Commerce is offered to students who desire the advantage of higher education and wish, at the same time, to prepare themselves for graduate study, a place in the business community, the public service, and professional life. The purpose of the program is to provide a broad background in the humanities and social sciences together with a development of the conceptual foundations of accounting, business administration and economics.

Degree of Bachelor of Commerce

The requirements for the degree of Bachelor of Commerce are as follows:

- 1. Subject to the regulations set forth in this calendar, the studen must complete a total of 20 full courses following junio matriculation, or 15 full courses following senior matriculation.
- During the regular academic year, the student will normally take 5 full courses. The five courses to be taken will be decided by the student in consultation with the department of his major. A major must be selected not later than the end of the sophomore year.

Up to the end of the sophomore year, the five courses in a student's program will be decided by the student in consultation with a member of the Commerce Faculty.

3. Major concentrations may be taken in Accounting, Business Administration and Economics.

4. The Freshman Year:

The student must complete 5 courses as follows:

(a) Two required courses: English 101 and Mathematics 113

EXAMPLE 105R, Economics 102, French 102, German Entery 111, Latin 102, Physics 111, Political Science Psychology 120, Sociology 121, Spanish 100, Theo-

The September Junior and Senior Years:

The stadent will take 15 courses numbered 120 and above.

The student must complete 6 required courses as follows:

- (1) English 120
- (2) Philosophy 120
- Accounting 201
- Business Administration 201
- (5) Commercial Law 201
- Economics 202
- the subject areas of the languages, humanities, social sciences (including Economics), natural sciences, according, and business administration.
- A constant who elects a beginning course in a language other than English must take another course in that language in a subsequent year.
 - The student must complete a major concentration in one of the following subjects as listed:
 - Accounting four courses, to include: Accounting 201, 301, 312-13.
 - Business Administration four courses, to include: Business Administration 201, 312-14.
 - **Economics** five courses, to include:

Economics 202, 306, one of 302, 303, or Math 120A -120B and two at the 300 level.

The remaining courses required under section (a) will be chosen by the student in consultation with his department. The programs shown represent what is normally taken and recommended for each concentration:

Accounting

First Year

English 101* Mathematics 113* Elective Elective Elective

Second Year

English 120* Accounting 201* Business Administration 201* Quantitative Methods 121-122, or 122-201 Economics 202*

Third Year

Fourth Year

Accounting $312^* - 313^*$ Accounting $301^* - 321$ Commercial Law 201* Philosophy 120* Elective

Accounting 303 Accounting 305 Elective Elective Elective

* Required Course

Economics

First Year

Second Year

English 101* Mathematics 113* Economics 102 Elective Elective

English 120* Business Administration 201* Accounting 201* Quantitative Methods 121-122, or 122-201 Economics 202*

Third Year

Commercial Law 201* Economics 302+ Economics 306* Philosophy 120* Elective

Fourth Year

Economics 303+ Economics Elective Economics Elective Elective Elective

* Required Course

+ The student may take either one of these or Math 120A - 120B to fulfill this requirement for a major. If he intends to pursue graduate studies the student is advised to take both Economics 302 and Economics 303.

Second Year

English 120* Accounting 201* Business Administration 201* Quantitative Methods 121-122, or 122-201 Economics 202*

Fourth Year

Business Administration 310 Elective Elective Elective Elective

ENDINEER INC.

Rentwood and Div

Taxi list

Commenced Law 201*

inistration 312* - 314*

Renaury Administration 306

Repaired Course

Destroye

The first three years are given only at the associated the Scote Technical College for the first three years of The first three years are given only at the associated the Saint Mary's is one, together with Acadia Technical University, Mount Allison Scote Frances Xavier University, and Saint Dunstan's

McGill University, and obtain the degree of Engineering (Civil, Electrical, Mechanical, Chemical, McGill University and obtain the degree of Engineering (Civil, Electrical, Mechanical, Chemical, Mechanical or Geological) on the successful and the last two years of a five-year course.

CAPLONIA IN ENGINEERING

EXAMPLE 1 Senior Matriculation or equivalent, as defined to follow the curriculum given below and **EXAMPLE 1 CONSTRUCTION SUCCESSFUL COMPLETION OF THIS PROGRAM A CONSTRUCTION C** Students entering with Junior Matriculation or equivalent, as defined in this calendar, will follow the curriculum given below and designated as Schedule "B". On successful completion of this program the student will be awarded the Diploma in Engineering.

SENIOR MATRICULATION REQUIREMENTS

The following entrance qualifications are necessary for those who, if they wish, plan to follow the program outlined in Schedule "A". A pase standing of 50% in each course is required with a general average of 65%.

- i English
- ii. Mathematics
- iii Physics
- iv Chemistry
- v One from History, Geology, Geography, Ancient and Moder Languages

Schedule "A"

First Year	Second Year	Third Year
Mathematics 120A 120B Physics 121 Chemistry 121 English 125 Engineering 105 or 102 Engineering 106* Engineering 107*	Physics 222 Chemistry 202 Engineering 203*	

*Schedule "B" First Year

Second Year

Third Year

110A Mathematics 110B Mathematics 120A 120B Mathematics 222 Physics 111 Physics 121 **Engineering 302** Chemistry 121 Chemistry 202 Engineering 303* English 101 Engineering 203* Engineering 304 Engineering105 or 102* Engineering 204* Engineering 308 Engineering 106* Elective Engineering 306* Engineering 107* Elective Elective

Note:

* indicates one semester courses. For details see "Courses of 1. Instruction."

The second year elective.

Measurements) is required only of measurements) is required only of the Nova Scotia Technical College in Civil, and the Scotia Technical College in Civil,

the Humanities, where not approval of the regis-

description of the second stability of the second stab

ENGINE HAND SCIENCE

the Diploma of Engineering under the degree of Bachelor of Science if they and the degree of Bachelor of Science Course.

MORESSIONAL COURSES

set to enter the professions of theology, law, medicine, set that their plan of studies includes courses active into the professional school of their choice. The set of the professional school of their choice. The set of the school set of the set of the set of the set of the school of his choice, the student is the set of the school of his choice, the student is the set of the school of his choice, the student is the set of the school of the school of a tregistration.

Example 2 Constant of the Bachelor's degree. Though **Some professional** schools, Saint Mary's **Some that the timetable will allow the completion of Example 2 International requirements** in less than the full time **Exception's degree.** Prerequisite requirements for **Exception of Source 1 Source 1**

to enter a theological seminary are advised to work in Philosophy and/or Latin, supported by the second biguages and Social Sciences.

Law

Students planning to enter Law School should contact the Dean of their Faculty as soon as possible. In this way an appropriate program of study can be worked out and agreed upon by the student and the Deal of his faculty.

Medicine

Students who wish to apply for admission to medical schools in Canad or the United States are generally required to have complete matric lation in Arts or Science.

"College training in preparation for the study of medicine shou provide the opportunity for a good general education including the attainment of competence in English. It should include theoretical an laboratory courses in Physics, Biology, and Inorganic and Organ Chemistry. At the present time the minimum requirement for admission to approved medical schools is three years of college trainin for the average student. For most students, four years is recommende in order to provide an opportunity to gain a broad education experience." (Statement of the American Medical Association December, 1951.)

Pre-medical students entering with Nova Scotia Grade XI or equivalent should complete fifteen university courses.

Credits should include Biology 105A-105B, Chemistry 111, 121, 20 Freshman English, Sophomore English, Mathematics 110A-1101 Philosophy and Physics 111. Of the six remaining credits, two or mon advanced courses should be taken in a definite field of learning in the humanities, sciences, or social sciences

Senior matriculation biology, general chemistry and physics will not ordinarily be accepted as equivalent to these required classes unlet followed by second level university classes in the respective subjects.

Students wishing to complete the requirements for a Bachelor of Science or Bachelor of Arts Degree must take five additional courses to be determined by the department of concentration so as to fulfill the requirements on pages 41 and 42 respectively.

Dentistry

Students who wish to apply for admission to dental schools and whe enter with Nova Scotia Grade XI or equivalent must complete minimum of fifteen university courses which should include Biology **105B**; Freshman English, Sophomore English; Mathematics **110B**; Physics 111. The remaining courses should include at **110B** courses chosen from the humanities and social sciences.

wishing to complete the requirements for a Bachelor of Bachelor of Arts Degree must take 5 additional courses so as the requirements on pages 41 and 42 respectively.

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Many's University, in association with the Nova Scotia Technical offers the first two years of a six-year course in Architecture to a Bachelor of Architecture degree. Students who complete the statistic of satisfactory University study, the courses studied being in balty, and who have been recommended by their appropriate admitted without further examination to the third year at the of Architecture, Nova Scotia Technical College, Halifax, where the balty balt of the four year professional phase of the curriculum.

Example 1 Should, preferably, complete at least one University course **Example 1** Should be required to take an entrance **Example 1** Should be take an entrance **Example**

MOURS DEGREES

ARTS AND SCIENCE

= spheral requirements for Honour's Degrees are as follows:

Students of above-average ability are urged to make application to follow an Honour's program before the end of their Sophomore year. Formal application for admission to an Honour's program must be made on a form available in the Registrar's office. The form must be submitted by the student applicant to the Chairman of the Department concerned, and must receive the approval of the appropriate Dean of Faculty.

All Honour's programs must consist of twenty full courses or equivalents beyond the Freshman year, and must satisfy the requirements for the General Bachelor's degree. A student must have the approval of the Committee on Academic Standing to transfer from an Honour's program to the General program.

A student must obtain a grade of not less than B in every Honour's course as described in item 4(a) or 5(a) below. A student receiving a mark of less than B in any Honour's course in item 4(a) or 5(a) will be permitted to continue in an Honour's program only with the approval of the Committee on Academic Standing.

- 4. In an Honour's program with a major, the fifteen full courses or equivalents taken beyond the sophomore level must include:
 - (a) nine full courses or equivalents beyond the sophomore level in a major subject;
 - (b) two full supporting courses or equivalents to be determined by the departmen of the major;
 - (c) four full courses or equivalents in the Humanities or Soci-Sciences.
- 5. In an Honour's program with a combined major, the fifteen ful courses or equivalents taken beyond the sophomore level muc include:
 - (a) eleven full courses or equivalents beyond the sophomore level in two allied subjects. Not more than seven ful courses or equivalents being in either of them.
 - (b) four full courses or equivalents in the Humanities or Soci Sciences.

EDUCATION

Bachelor of Education Program

This program of studies, which is designed to form a professional preparation for university graduates intending to enter the teaching profession, is a full-time one of six courses lasting one academic year (September to May), dealing with preparation for teaching in Junic and Senior High Schools.

There are two goals aimed at in this program. The first is to provide students with a basic competence in the skills of teaching academisubjects. The second goal, is to encourage in students the development of those ideas which will allow them to perceive the process of Education as being one which while providing the facts and skill necessary for living, has, at the same time, the more significant aim of expanding and enriching the mind of the learner. In furtherance of these aims, students are required, in addition to class attendance, to undertake a considerable amount of reading and writing with the object of developing their own personal understanding and philosophy of education. a courses in the program are:

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Charge 1 Constant Constant

and on successful completion of their studies, students to the Department of Education of the Province of Nova teaching licence. Students are entirely responsible for any with the Department of Education respecting their licence

constitutes constitutes c

an **Requirements**

Example 2 must hold a Bachelor's Degree of Saint Mary's University or **Example 2** miversity of similar standing.

Training College and who have since acquired a Degree, may obtain the Degree of Bachelor of Education by the classes in Philosophy of Education, and Psychology of

College of Education in the United Kingdom or College in the United States, who are licensed as Province of Nova Scotia, and who have acquired a Degree, may obtain the Degree of Bachelor of Education by program of study as may be approved by Senate

Application for these TUITION grants may be made at the

In addition, the Province of Nova Scotia provides a certain number SCHOLARSHIPS AND BURSARIES for those intending to take t Bachelor of Education Degree. Application for scholarship is made or form obtainable from the School of Education which must be return before **June 1st**. Note that all allocations of scholarships are maduring June and only unusually are any funds available for this purp after that month.

To Apply for Admission

- 1. Complete the form of application and make sure that all documents required are complete and returned with application.
- Make sure that supporting documents transcripts, reference and so on will be sent to the University by those concerned The Director of Admission does not undertake to send in transcripts or references.
- Applications should be made as soon as possible, but in any ca applications received after August 15th may not be processed time for registration in September.
- The admission of any candidates to the program is probation and the status of all candidates is reviewed in December equer.



Graduate Studies

Degree of Master of Arts

RAL REQUIREMENTS FOR ADMISSION

Condidates for admission to the Master's program must:

Hold a Bachelor's degree from a University of recognized standing, and have completed an undergraduate program in the subject area chosen for the graduate study comparable to an Honours degree from Saint Mary's University in that subject area.

Note

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A Bachelor of Education degree comparable to that granted by Saint Mary's University with second class standing will be **considered** the equivalent of an Honours degree for candidates seeking admission to graduate study in Education.

Candidates whose native tongue is other than English may be required to take a proficiency in English under the auspices of

The English Language Institute **Testing and Certification** The University of Michigan Ann Arbor, Michigan, U.S.A.

have the approval of the Committee on Graduate Studies, and of the department concerned.

Condidates who have not completed the requirements for in the department concerned, be similated by the Committee on Graduate Studies to a program of manary study.

Certain departments may have special requirements for admission e dition to the general requirements.

Application for admission must be made on a form obtainable Director of Admissions. The application form calls for an official meteript of the student's academic record, and also for letters of empendation from two persons in a position to judge the sectional and intellectual capacities for graduate study. The and all supporting documents must ordinarily be on hand by May at 101

GENERAL REQUIREMENTS FOR THE MASTER'S DEGREE

1. Candidates normally must spend at least one academic year residence. This period is additional to any time needed to meet normal admission requirements.

2. Candidates must complete a program of four full courses submit an acceptable thesis. On the recommendation of the departm concerned, a three course program is permissible for a candid undertaking a proportionately more demanding thesis. In departme authorized by the Committee on Graduate Studies, a five corprogram, without thesis, is also acceptable for the degree. Courses in programs must be at the 400 level or the 500 level, but, wha advisable, courses at the 300 level may be included in a prograprovided that the requirements applying to graduate students in st courses be of a graduate standard.

3. A Department may accept two advanced courses in the che subject area completed at other universities as part of the requirement provided they have not been applied previously towards another dep

4. A mark of B is required in all courses.

5. Two failures will require withdrawal from the program. There be no supplemental examinations.

6. Candidates must complete all degree requirements within calendar years of being accepted as Master's degree candidates.

FEES, FINANCIAL AID

The schedule of fees found on page 28 of this calendar applies to graduate studies program.

A number of fellowships and assistantships up to a maximum of \$2,5 for the calendar year are available for full-time students. Fur information on these may be obtained from the Chairman of department concerned.

DEPARTMENTS OF INSTRUCTION

EDUCATION

The University's general requirements for admission to Grad Studies and for the Master of Arts degree apply to the School Education. The particular requirements of the School are as follows The candidate for admission is normally asked to appear for a interview with the Dean of Education and/or a faculty designated by him. The interview usually occurs after the interview application form and supporting documents are on hand.

The candidate is encouraged to have completed at least one year of teaching before embarking on the M.A. (in Education)

Courses are generally scheduled in the late afternoon, evening, and **morning during the regular academic session.** A summer **is also** available, but a candidate is not permitted to take more **the two of** his four courses through summer study.

Charse offerings include courses in the following fields: Philosophy education, psychology of education, comparative education, and entering administration/supervision. The complete repertory of the sis found on page

En Education with the writing of his thesis a candidate must Education 510 (Graduate Research Seminar). This course does and an end of the four normally required for the degree.

HISTORY

University's general requirements for admission to Graduate **constant** for the Master of Arts degree apply to the Department of **Constant**. The particular requirements of the Department are as follows:

The candidate will be required to demonstrate a reading **inowledge** of at least one foreign language by passing a test **tarried** out in cooperation with the language department **inncerned**. French is specified for candidates intending to write a **thesis** in the history of Canada.

A thesis can be written only in the following three fields: Danadian; Canadian-American Relations; and Tudor and Stuart England.

Defore proceeding to the thesis, the student following the **sourse**-and-thesis approach must pass an oral examination in **which** he will be expected to demonstrate knowledge in (a) his fields of study and (b) the ideas of the leading historians. A **similar** examination will be required of candidates in the course programme.

Two months prior to the termination of his courses, the candidate will be invited to select from among the members of the History Department, the chairman and committee members of his examination board. While the Department will make energy of the most of the most of the matter of the most of the most

PHILOSOPHY

Robert N. Ansell, Richard H. Beis, Lawrence Dewan, Rolf Gruner, H. Lackner Rowland C. Marshall, Arthur P. Monahan, William A. Stewart, S.J.

REQUIREMENTS FOR ADMISSION

Application for admission must be made on a form obtained from Director of Admissions. The general requirement for admission Graduate Studies which requires the applicant to hold a Bachel degree equivalent to an Honours degree in Philosophy from Sa Mary's University is specified by the following details: some acqui ance with modern logic, and with the various sections of the histor philosophy: ancient, mediaeval, modern, contemporary.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

Each student's program is arranged individually in consultation with Department in relation to the student's preparation and interests, keeping in mind the value of a general familiarity with the history philosophy.

Courses

Philosophy 500: Modern Logic, R.N. Ansell

Philosophy 501: Plato and Aristotle, L. Dewan

Philosophy 502: Mediaeval Philosophy, A. P. Monahan

Philosophy 503: British Empiricism

Philosophy 504: Continental Idealism: Descartes to Hegel, R.C. Marshall

Philosophy 505: Continental Existential Thought, A.P. Monahan

Philosophy 506: Contemporary Analytic Thought, R.H. Beis

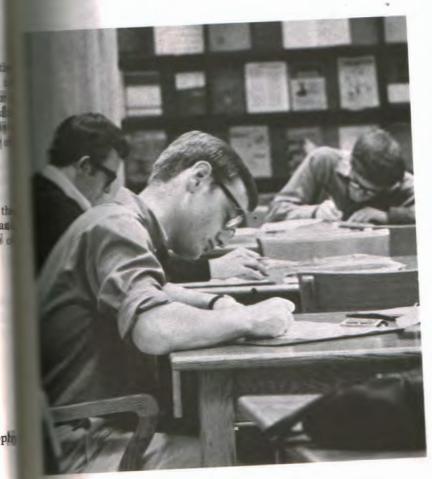
Philosophy 507: Phenomenology, R.C. Marshall

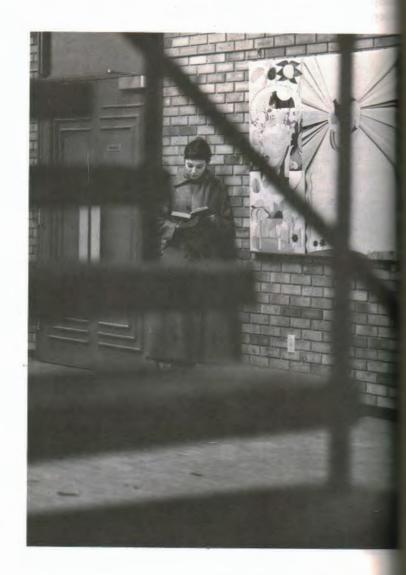
Philosophy 508: Augustine and Aquinas on the nature of Philoso A.P. Monahan

Philosophy 509: Epistemology of Lonergan, W.A. Stewart, S.J.

Philosophy 510: Philosophy of History, R. Gruner

- 511: Advanced Ethical Theory, R.H. Beis
 - 512: Philosophy of Language
 - 513: Philosophical Logic, R.N. Ansell
- 514: Philosophy of the Social Sciences, R. Gruner
 - 515: Philosophy of Science, H. Lackner
 - 516: The Philosophy of Wittgenstein, R.N. Ansell
 - 517: Metaphysics as a Knowledge of God, L. Dewan
 - 550: Staff Seminar
- 600: Research and Thesis





Courses of Instruction

menting repology Bolingy **Administration** Cubility Casies bercial Law in mics heering tish arts mch IN SY -----iory Bematics a pophy nics . Indicial Science P- Hology **Intitative** Methods for Commerce **Leipious** Studies Socialiogy. nish

otherwise designated all courses listed are full courses.

ECCOUNTING

Cormier Dixon Hope Marie CorNeil Rege Schroeder H.G. Deegan Sampson Vigneau Associate Professor (Chairman) Lecturer Assistant Professor Assistant Professor Assistant Professor Assistant Professor Assistant Professor Instructor Instructor

Courses leading to a B. Comm. with a Major in Accounting

Second Year Accounting 201*	
Economics 202*	
English 120*	
Quantitative Methods 121-122, or 122-	

Third Year

Fourth Year

Accounting 301*-321 Accounting 312*-313* Philosophy 120* Commercial Law 201* Elective *Required Course Accounting 303 Accounting 305 Elective Electice Elective

Note: See Quantitive Methods for Commerce Page 157

A Commerce graduate who has followed the accounting concern and obtained the required grades normally is in a position to sit in final chartered accountancy examinations two years after recein commerce degree.

Commerce graduates may receive exemption from many of the c and examinations conducted by the Institute of Chartered Account of Nova Scotia for students who intend to become Char Accountants. The exemptions are based upon specific course and the grades obtained in the undergraduate program. Details of exemptions may be obtained from the Department of Accounting

Arrangements also exist with the Institutes of other Provinces.

Exemptions are also granted by the Society of Industrial Account of Nova Scotia to Commerce graduates who register in the Indu Accounting Course sponsored by the Society.

201: Principles of Financial and Managerial Accounting

A study of basic accounting concepts, and their application to be transactions and financial statements. An introductory consider asset and liability accounts, and the managerial uses of accounting

Lectures: Four hours a week, two semesters.

62

INCLINEAR AND DYNAMIC PROGRAMMING

Examplisite: Quantitative methods 121, or Mathematics 113, **Examplics 202;** Business Administration 321.

pamming models with business applications with emphasis on linear programming.

mers: Three hours a week, one semester – half course.

INTERMEDIATE FINANCIAL ACCOUNTING

Feedbaisite: Accounting 201

Souther study of the financial accounting aspects of Accounting 201 accounting reference to balance sheet accounts.

Three hours a week, one semester – half course.

ADVANCED FINANCIAL ACCOUNTING

Accounting 301.

of partnerships, consolidations, fiduciary accounting, special **procedures**, business investigations, and other advanced areas.

Three hours a week, two semesters.

ALE AUDITING

Accounting 301

principles and procedures including verification and statepresentation of assets, liabilities, equity and profit and loss

Three hours a week, two semesters.

ACCOUNTING SEMINAR

Tempisite: Accounting 301

Section and current developments in accounting research and theory. We will be selected from financial and managerial accounting, auditing and other fields related to accounting.

Example: Four hours a week, one semester – half course.

TAXATION

Accounting 301

An introductory study of the theory and procedures of taxation at a levels of government.

Lectures: Three hours a week, one semester - half course.

312: INTRODUCTION TO MANAGERIAL FINANCE AND CONTROL

Prerequisite: Accounting 201

An introductory prerequisite course for further courses in finance control and cost accounting. Coverage of techniques common to the areas – financial analysis; cash and capital budgeting; cost, volum profit and incremental analysis; inventory control; and an introduction to scientific thinking and decision theory.

Lectures: Three hours a week, one semester - half course.

313: MANAGERIAL CONTROL - COST ACCOUNTING

Prerequisite: Accounting 312

A continuation of the study of control and costing principles and procedures, with emphasis upon managerial uses in the planning and control of operations and for special decisions.

Lectures: Three hours a week, one semester - half course.

321: INTRODUCTION TO COMPUTERS

Prerequisite: Accounting 201, Mathematics 113 or equivalent

Introduction to information systems and data processing function systems analysis and flowcharting; computer characteristics; compute programming.

Lectures: Three hours a week, one semester - half course.

322: COMPUTER APPLICATIONS AND MANAGEMENT

Prerequisite: Accounting 321 and Quantitative Methods 201

Further study of computer-based management information system models and simulation; basic concepts of probability; selected top from computer-dependent management techniques; problems of fea bility studies, controls, organization.

Lectures: Three hours a week, one semester -half course.

323: INFORMATION SYSTEMS

Prerequisite: Accounting 321

standy of computer-based data processing and information systems, being the management problems of computers in business such as control and feasibility.

Three hours a week, one semester – half course.

Loewenstein

Professor Assistant Professor

INTRODUCTION TO PALAEOANTHROPOLOGY I

isite: None

technical survey of man's primate background, fossil primates

and selected references to be announced.

Three hours a week, two semesters.

SOCIO-CULTURAL ANTHROPOLOGY

isite: None

broduction to the nature of culture, society, primitive economics, brganization, law and government, as well as cultural change. A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A **brganization, law and government, as well as cultural change.** A

and selected references to be announced.

Three hours a week, two semesters.

INTRODUCTION TO CULTURAL GEOGRAPHY

maisite: None

study of the relationship between environment and man; the static and geographic bases of culture.

Texas and selected references to be announced.

Three hours a week, two semesters.

ETHNOLOGY I

- misite: None

technical introduction to the science of peoples, their cultures for the histories as groups, with special reference to the New World.

Texts and selected references to be announced.

Lectures: Three hours a week, two semesters.

155: INTRODUCTION TO ARCHAEOLOGY

Prerequisite: None

'Archaeology is a science that must be lived. Dead Archaeology is the driest dust that blows'. Sir Mortimer Wheeler

The scope of archaeology. Dating the past. The layout of an excava On digging town-sites. On digging burials. Tools, photography, etc.

Texts and selected references to be announced.

Lectures: Three hours a week, two semesters.

250: PALAEOANTHROPOLOGY II

Prerequisite: To be left to the discretion of the professor.

A technical and more intensive treatment of the subject-matter course No. 140. This course is complementary to No. 202 Palae tology (Geology), which is recommended to students of Anthropology

Texts and selected references to be announced.

Lectures: Two hours a week, two semesters.

251: CULTURAL GEOGRAPHY II

Prerequisite: To be left to the discretion of the professor.

The cultural Geography of the Americas.

Texts and selected references to be announced.

Lectures: Three hours a week, two semesters.

252: ETHNOLOGY II

Prerequisite: None

The Aborigines of North America.

Texts and selected references to be announced.

Lectures: Three hours a week, two semesters.

310: HISTORY OF ANTHROPOLOGY

Prerequisite: None

deals with the development of Anthropolgoy from its early mings as a Natural Science to its present form as a synthesizing of man. The subject will be divided into 2 major sections: and Cultural Anthropology.

and selected references to be announced.

maintar course: Three hours a week.

COMPARATIVE RELIGION

course, offered in the Department of Religoius Studies, is mended to students of Cultural Anthropology.

Heligious Studies program!

RELIGIONS OF INDIA (See RELIGIOUS STUDIES)

CULTURAL GEOGRAPHY III

merel misite: To be left to the discretion of the professor.

The Far East

ments and selected references to be announced.

Two hours a week. two semesters.

THE BIRTH OF CIVILIZATION

merentisite: University History Work

The work of the earliest civilizations in the Old and in the New World: The Weiterranean East – India – China – Mesoamerica and Peru.

inter to history students.

fints and selected references to be announced.

contracts (illustrated by lantern slides): Three periods of 75 minutes a me semester only – full course.

ETHNOLOGY III

merebrisite: To be left to the discretion of the professor.

and vanishing tribes.

control control control control control control control control control control

with all the technical aids to record and preserve for posterity a the image of any human group we choose to study. Twenty or thirty yes from now we shall, no doubt, have even more wonderful record machines — but we shall have nothing to record. We are confronter with a most urgent task.

Texts and selected references to be announced.

Lectures: Two hours a week, two semesters.

ASTRONOMY

301: INTRODUCTION TO ASTRONOMY

(For details see Physics)

BIOLOGY

M. Wiles H. Bobr-Tylingo B. Kapoor A. Rojo E. Rojo K. Thomas

Assistant Professor, Chaim Assistant Profe Assistant Profe Associate Profe Assistant Profe Assistant Profe

Commencing September 1970 the Biology Department will off courses of one semester duration which are organized around a "con program. Each single semester unit is worth one half credit and uniare normally taken in pairs to provide whole numbers of credits.

The "core" program is intended to provide biology students with balanced and comprehensive spread of basic knowledge in biology which should aid him in understanding almost any of the disciplines biology. This approach is necessary because of the very wide spread knowledge now included in biological science. A student complete the "core" program and going on to finish a concentration in biolog should be capable of continuing at graduate level after a qualify year or honours year. Students not proceeding beyond the bachele level should have sufficient background for teaching technical or heal sciences work, after further specialized training.

Complete details of the science degree program with a concentration biology are available to students in the Department of Biology.

BIOLOGY 105A: GENERAL BIOLOGY 1 (ARTS AND SCIENCE)

Prerequisites: None

Class designed for both Arts and Science students. An essential minimize for all other Biology courses, this course will nevertheless of interest to non-science students. The study will involve a study of the chemical, physical and biological principles life processes and contributing to the characteristics of living

To be announced.

Lectures and/or seminars three hours per week, one

conternatory: Three hours per week, one semester.

If successfully completed, this course must be followed by **105B**.

INCLOGY 105B GENERAL BIOLOGY 2 (ARTS AND SCIENCE)

Biology 105A

As for Biology 105A

To be announced

Exercision: Lectures and/or seminars three hours per week, one exerciser.

Laboratory: Three hours per week, one semester.

This course is meant to follow naturally from work done in 105A the first semester.

IDCLOGY 125A: ANIMAL DIVERSITY

Disites: Biology 105A - 105B

Systematic survey of the Animal Kingdom with emphasis on porphology and its relation to function. Phylogenetic relationthe influence of physiological adaptation through the penisms of heredity and the involvement of evolutionary processes production of the diversity of modern animal life.

respected to illustrate this connection of animal morphology and the ecology, genetics and evolution of animals.

Text: To be announced.

Instruction: Lectures and seminar three hours per week, one semested

Laboratory: Three hours per week, one semester.

BIOLOGY 125B: BIOLOGY OF LOWER PLANTS

Prerequisites: Biology 105A-105B

Study of the variety and unity of plant life and forms, based on the different groups of lower plants, their morphology and activities, theil classification and evolution.

Text: To be announced.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

BIOLOGY 203A: CYTOLOGY 1

Prerequisites: Biology 105A-105B, Chemistry 111 or 121

Study of the gross structure of plant and animal cells and cell organelle in relation to heredity and development.

Text: To be announced.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

BIOLOGY 203B: PHYSIOLOGY 1.

Prerequisites: Biology 105A-105B, Chemistry 111 or 121

An introduction to the essential aspects of biochemistry and cellula physiology and a discussion of how they underlie the basic processe carried on by organisms.

Text: To be announced.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

BIOLOGY 206A: GENETICS 1

Prerequisites: Biology 105A,105B, 125A, 125B, Chemistry 111 or 121

Study of the principles of inheritance in plants, animals and other organisms at particulate and molecular levels.

To be announced.

Three hours a week, one semester.

Three hours a week, one semester

BOLOGY 206B: EVOLUTION

Biology 105A-105B, 125B, 206A, Chemistry 111 or 121

A study of the manifestations, mechanisms, and biological sections of organic evolution. Some aspects of the evolutionary of life on earth with emphasis on the origins of living animals.

Exercision: Lectures or seminars three hours per week, one semester.

Three hours per week, one semester.

INCLOGY 207A: ECOLOGY 1

206A or 206B may be taken concurrently.

of plants and animals. An introduction to the concepts of plants and practice. A study of representative natural habitat as found in Nova Scotia.

Fundamentals of Ecology - E.P. Odum, 3rd. ed. 1969

Located and the second second

between the section were a section of the section o

Field Work or Laboratory: Three hours per week (on average), one emetter.

If successfully completed, this course must be followed by 207B.

BIOLOGY 207B: ECOLOGY 2

Biology 207A

Constrial ecology and soils. Techniques for the identification of the identification o

Texts: As 207A

Instruction: As 304A.

Laboratory: Three hours per week, one semester.

Note: This course is meant to follow naturally from work done in 201during the first semester.

BIOLOGY 311A: PHYSIOLOGY 2

Prerequisites: Biology 105A-105B, 203B (Chemistry 202 concurrent is desirable).

A comprehensive study of the physiological processes of organism from a chemical and physical point of view.

Text: To be announced.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

BIOLOGY 311B: CYTOLOGY 2

Prerequisites: Biology 105A, 105B and 311A

Advanced topics in the structure of cellular organelles and chrodosomes and their behaviour in cell cycles.

Text: To be announced.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

BIOLOGY 312B: GENETICS 2

Prerequisites: Biology 105A-105B, 206A, 206B

Advanced topics in genetics including genetic code, protein systhesis, mutations, polyploidy, microbial genetics and population genetics.

Text: To be announced.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

BIOLOGY 313A: VERTEBRATE ANATOMY

Prerequisites: Biology 105A-105B 125A, and instructor's consent.

with the Mammals. Special emphasis would be given to modifications within each group, demonstrating that the instructure is an adaptation of the organism.

bjective of this course is to emphasize the unity which diversity of the various classes of vertebrates.

The be announced.

Three hours a week, one semester.

Three hours a week, one semester.

BOLDGY 313B: PHYSIOLOGY 3

Completed core.

the functions of major organs and organ systems in the functions of major organs and organ systems in the second systems in the second systems are second solutions.

To be announced.

Three hours a week, one semester.

Three hours a week, one semester.

INCLOGY 314A: EMBRYOLOGY

me minites: Completed core.

egg into a new individual. Emphasis will be on Vertebrate

To be announced.

Three hours a week, one semester.

Three hours a week, one semester.

BIOLOGY 315A: MORPHOLOGY OF VASCULAR PLANTS

thereignisites: Biology 105A-105B and 125B

Structure, development and evolution of major taxa of plants – Petridophytes, gymnosperms and flowering plants, extinct and extanct.

To be announced.

Three hours a week, one semester.

Compatory: Three hours a week, one semester.

BIOLOGY 315B: HISTOLOGICAL MICROTECHNIQUE

Prerequisites: Biology 125A, 125B

Outline: Methods of staining living tissues or living organisms, whe fixed animals and plants, sectioned animal and plant materials. The histology of the different kinds of vertebrate tissues and the differkinds of plant tissues.

Text: To be announced.

Instruction: Lectures three hours per week, one semester.

Laboratory: Three hours per week, one semester.

BIOLOGY 325A: BIOLOGY OF FISHES 1

Prerequisites: Completed core. Biology 313A.

Outline: A study of the embryology, anatomy, physiology and classification of the main organ systems of the lower orders of fishes, in classification and geographical distribution emphasis will be placed or the marine Northwest Atlantic fishes and the freshwater fishes of New Scotia.

Text: To be announced.

Instruction: Lectures two hours per week, one semester.

Laboratory: Three hours per week, one semester.

Note: If successfully completed, this course must be followed be Biology 325B.

BIOLOGY 325B: BIOLOGY OF FISHES 2

Prerequisites: Biology 325A

Outline: A study of the embryology, anatomy, physiology and classification of the main organ systems of the higher orders of fisher. In classification and geographical distribution emphasis will be place on the marine Northwest Atlantic fishes and the freshwater fisher Nova Scotia.

Text: To be announced.

Instruction: Lectures two hours per week, one semester.

Laboratory: Three hours per week, one semester.

Note: This course is meant to follow naturally from work done in 325 during the first semester.

BIOLOGY 326A: BIOLOGY OF INSECTS

Completed core.

insects including their characteristics, phylogenetic relationteristics, phylogenetic relation. Economic effects of their control by natural and artificial means.

Te be announced.

Three hours a week, one semester.

Three hours a week, one semester.

BULDGY 327 B: PLANT TAXONOMY

completed core.

and classification. Major emphasis will be to identify and classification. Major emphasis will be to identify and classification. Solution and classification.

To be announced.

Three hours a week, one semester.

Three hours a week, one semester.

ESINESS ADMINISTRATION

Comier	Associate Professor (Chairman)
Baydar	Assistant Professor
I.a. Hope	Assistant Professor
DE finnes	Lecturer
E Marie	Assistant Professor
DE Quereshi	Assistant Professor
Rege	Assistant Professor
E.J. Schroeder	Assistant Professor
CD. Tamilia	Lecturer

Courses leading to a B. Comm. with a Major in Business Administration

Fres Year

English 101* English 101* English 113* English 101* English 101* English 101* English 101*

Second Year

Accounting 201* Business Administration 201* Economics 202* English 120* Quantitative Methods 121 - 122, or 122 - 201

Third Year

Fourth Year

Business Administration 306 Business Administration 312–314* Elective Philosophy 120* Commercial Law 201* *Required Course Business Administration 310 Elective Elective Elective Elective

Note: See Quantitive Methods for Commerce Page 157

201: PRINCIPLES OF MANAGEMENT

A study of fundamental concepts of management; decision making management planning, organizing, motivating and controlling. A priobjective of this course is to introduce the systems concept as foundation for further study in the program.

Lectures: Three hours a week, two semesters.

202. LINEAR AND DYNAMIC PROGRAMMING

Prerequisite: Quantitative Methods 121, or Mathematics 11 Economics 202; Business Administration 321.

Programming models with business applications with emphasis on line and dynamic programming.

Lectures: Three hours a week, one semester - half course.

306: ORGANIZATIONAL BEHAVIOUR

Prerequisite: Business Administration 201

An introductory study of human behaviour in formal organization with emphasis on patterns and theories of behaviour in industry. The course exposes the student to behavioural science concepts through readings, a text, classroom sessions, and the application of courconcepts to the analysis of cases.

Lectures: Three hours a week, two semesters.

308: PERSONNEL MANAGEMENT

Prerequisite: Business Administration 201

Organization and management of personnel; manpower plan improvement of performance; motivation; communication; supervise the work group; remuneration.

Lectures: Three hours a week, one semester - half course.

DUSTRIAL RELATIONS

Business Administration 201

Example 1 industrial relations, a study of union **example 1 industrial relations**, a study of union **example 1 industrial and allied material**.

Three hours a week, one semester - half course.

HUSINESS POLICY

Business Administration 201 and the equivalent of two Business Administration full courses.

discovering opportunities and planning programs of action; administrative personnel and putting plans into action; follow up and appraisal; day to day administrative problems; miness leader and public responsibility.

Three hours a week, one semester – half course.

IDE INTRODUCTION TO MANAGERIAL FINANCE AND CONTROL

Accounting 201

and cost accounting. Coverage of techniques common to these financial analysis; cash and capital budgeting; cost, volume, and incremental analysis; inventory control; economics of bution; and an introduction to scientific thinking and decision

Three hours a week, one semester – half course.

MANAGERIAL CONTROL – COST ACCOUNTING

Business Administration 312

Example 1 Final tion of the study of control and costing principles and **Example 2** with emphasis upon managerial uses in the planning and **of operations and for special decisions**.

EXAMPLE Three hours a week, one semester – half course.

Business Administration 312

of the finance function; financial decisions – investment in working capital, capital structure, and dividends; financial formulation and administration; mergers and reorganizations.

Three hours a week, one semester – half course.

315: INVESTMENTS

Prerequisite: Business Administration 314

The analysis of investment values; study of financial markets in relation to the problems of financing business enterprise and undertain portfolio management.

Lectures: Three hours a week, one semester - half course.

316: CORPORATION FINANCE

Prerequisite: Business Administration 314

Theory and practice of corporation finance as related to a management and financing of business enterprise; study of financial variables and optimization problems of financial management.

Lectures: Three hours a week; one semester - half course.

317: INTRODUCTION TO PRODUCTION MANAGEMENT

Prerequisite: Business Administration 201, Mathematics 113. Quantitative Methods 121.

An introduction to the production function and process incle coverage of the systems concept and the basic techniques for ded making in the areas of planning and control.

Lectures: Three hours a week, one semester - half course.

319: BUSINESS AND ITS ENVIRONMENT

Prerequisite: Business Administration 201; Economics 202

Business and its economic and political environment; the service responsibilities of business.

Lectures: Three hours a week, one semester - half course.

320: TECHNIQUES OF PRODUCTION MANAGEMENT

Prerequisite: Business Administration 317, 321, Quantitative 121

A more advanced course in the study of the production funcincluding control of inventory, costs using mathematical technique the computer.

Lectures: Three hours a week, one semester - half course.

EXAMPLE COMPUTERS

Accounting 201 and Quantitative Methods 201

EXAMPLE To information systems and data processing functions; and flowcharting; computer characteristics; computer (FORTRAN IV); survey of other languages.

Three hours a week, one semester - half course.

CONFUTER APPLICATIONS AND MANAGEMENT

Business Administration 321

Generative of computer-based management information systems; Sector binulation; basic concepts of probability; selected topics Computer-dependent management techniques; problems of feasi-Controls and organization.

DECEMATION SYSTEMS

Business Administration 321

the management problems of computers in business such as a control and feasibility.

Three hours a week, one semester - half course.

EXAMPLE 1 INTRODUCTION TO MARKETING

Business Administration 201

management; pricing, promotion, merchandising, distri-

Three hours a week, one semester – half course.

EXAMPLE 1 INCLUSION

Business Administration 325

a study of marketing activity and its organization, planning the program and controlling the marketing effort.

Three hours a week, one semester – half course.

327: MARKETING RESEARCH

Prerequisite: Business Administration 325 and Quantitative Mether 201 (or equivalent)

An introductory course in the nature, methods, procedures an application of marketing research.

Lectures: Three hours a week, one semester - half course.

328: MARKETING COMMUNICATION AND ADVERTISING

Prerequisite: Business Administration 325

An introduction to the study of advertising principles and practicity including advertising strategies, media presentation and evaluation effectiveness.

Lectures: Three hours a week, one semester - half course.

329: INTERNATIONAL MARKETING

Prerequisite: Business Administration 325

An introduction to the nature and environment of internation marketing including the study of the international consumer, produpolicy, distribution promotion, research and management.

Lectures: Three hours a week, one semester - half course.

330: SALES MANAGEMENT

Prerequisite: Business Administration 325

A study of the managerial problems involved in sales managering including the recruitment, training, compensation and motivation sales personnel and the control and integration of the personal selfeffort.

Lectures: Three hours a week, one semester - half course.

CHEMISTRY

E.R. Hayes D.H. Davies J. Elhanan J. Ginsburg J.W. Murphy, S.J. G. Noel A.T. Sabean K. Vaughan Associate Professor, Chai Assistant Profe Associate Profe Assistant Profe Associate Profe Lect Profe Assistant Profe program of the Chemistry Department is designed to satisfy two

to fulfill the requirements for the general degree of Bachelor sence and the Honours Bachelor of Science degree.

degrees will permit graduates to enter the work force or **school** with a background at least equal to that provided by **the Universities** in Canada and the United States.

to introduce students in other disciplines to the ideas of mistry and provide them with Chemical skills necessary for their pional development.

Some jobs, both during the term and in the summer, are for senior undergraduates.

CEDESTRY 111: AN INTRODUCTION TO CHEMISTRY

None.

in the study of selected nonmetals, metals and their

To be announced

Three hours a week, two semesters.

Three hours a week, two semesters.

DENESTRY 121: GENERAL CHEMISTRY

Chemistry 111 or equivalent; Mathematics 121 to be chemistry 111 or equivalent; Mathematics 121 to be

survey of the most important theories used to explain the **second gases**, liquids, solids and solutions.

Inter To be announced.

Three hours a week, two semesters.

Three hours a week, two semesters.

STRY 202: INTRODUCTORY PHYSICAL CHEMISTRY

The special sector of the special sector of

Example 1 thermodynamies, electrochemistry, kinetic theory of **Example 2** thermodynamies.

Text: To be announced

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters. CHEMISTRY 203: CHEMISTRY OF THE ELEMENTS

Prerequisites: Chemistry 121

An integrated course in inorganic and organic Chemistry emphasis structure and bonding. Fundamental concepts of organic chemistry presented in the second semester.

Text: To be announced

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

CHEMISTRY 204: ELEMENTARY ORGANIC CHEMISTRY

Prerequisites: Chemistry 121 or Chemistry 111 with permissing Department.

A comprehensive treatment of organic chemistry for non-chemistry. The principal functional classes, reaction mechanisms, chemistry and physical methods are discussed in the lecture illustrated in the laboratory.

Text: To be announced.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

CHEMISTRY 304: INTERMEDIATE ORGANIC CHEMISTRY

Prerequisites: Chemistry 203

The study of aliphatic, aromatic and heterocyclic compound emphasis on modern methods and concepts in stereochemistry, remechanisms and physical properties.

Text: To be announced.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

CHEMISTRY 306: PHYSICAL CHEMISTRY

Prerequisites: Chemistry 202; Mathematics 121 and 222 (the may, in certain cases, be taken concurrently).

Example 1 theory, statistical thermodynamics, chemical kinetics

instantion in the announced

Three hours a week, two semesters.

Three hours a week, two semesters.

STRY 307: ANALYTICAL CHEMISTRY

mentes: Chemistry 121 and one of Chemistry 202, 203 or 204.

Example 2 Example 2 Examp

To be announced

Three hours a week, two semesters.

Three hours a week, two semesters.

STRY 404: ADVANCED ORGANIC CHEMISTRY

Chemistry 304 and Chemistry 306 (the latter may be currently).

and polymers. In the laboratory the student will perform with the student will perform the stude

To be announced

Three hours a week, two semesters.

Three hours a week, two semesters.

STRY 407: SELECTED CHAPTERS IN INSTRUMENTAL

Chemistry 307

estimate to present topics in circuits, radio-chemistry, spectroscopy and electrochemistry.

To be announced

and Laboratory: Five hours per week, two semesters.

STRY 410: RESEARCH THESIS

Finites: Restricted to fourth year students in Honour's program.

The student will carry out a research project under the direction of of the members of the Department. The student will prepare a thesi his work and present it orally.

Laboratory: A minimum of six hours per week, two semesters.

CHEMISTRY 411: ADVANCED TOPICS IN PHYSICAL CHEMIST

Prerequisites: Chemistry 306

A course on special topics selected from advanced areas of phy-

Text: To be announced

Lectures: Three hours a week, two semesters.

Laboratory: None.

CHEMISTRY 412: QUANTUM CHEMISTRY

Prerequisites: Chemistry 306, Physics 121 and Mathematics 222.

Text: To be announced.

Lecture: Three hours a week, two semesters.

Laboratory:None.

CLASSICS

Mildred Harrington Rev. M.J. O'Donnell, S.J. Geraldine T. Thomas Vincent McB. Tobin LATIN Instr Associate Prof Led Assistant Prof

LATIN 101:

A course in the essentials of Latin for students who have not compared Matriculation Latin.

Text: Latin Course for Schools, Part I and Part II, Ch. 1 - 27 Wilding.

Lectures: Four hours a week, two semesters.

LATIN 102: FIRST YEAR COLLEGE LATIN

Prerequisite: Matriculation Latin.

A thorough study of Latin syntax with selections from various and exemplifying the syntax explained in the given chapter.

Calero's Pro Archia. Latin Course For Schools, Part II, Ch. 27 to Part III – Wilding.

Three hours a week, two semesters.

120: INTRODUCTION TO LATIN EPIC POETRY

English. Prose composition stresses the exact rendering of idiomatic Latin.

Datine of Latin Prose Composition – Vincent and Mountford; **IV** – Vergil; Aeneid (complete, in translation).

Three hours a week, two semesters.

200: THE POETRY OF HORACE

analysis and appreciation of Horace's art and ideals. Prose

Des, Satires, Ars Poetica – Horace

300:

course on Tacitus, Livy and Juvenal. Roman history from beginning of the middle ages.

301: CICERO'S RHETORIC

manufactories and the study of Cicero's Rhetoric.

Composition.

Pro Lege Manilia, Pro Marcello, Pro Ligario

ATIN 302:

Recum Natura).

400:

and interests of the student. Directed readings and research.

GREEK

GREEK 120: INTRODUCTORY GREEK

An introductoy course covering the major grammatical points of the Greek language. This is a special programmed Greek course, place emphasis on the oral aspects of language learning.

Lectures: Three hours per week, plus Language Laboratory.

This course will be followed in succeeding years by more advandcourses in the reading and interpretation of Classical authors.

CLASSICAL LITERATURE

CLASSICS 201: CLASSICS IN TRANSLATION

The Classical Literature of Greece and Rome in Translation. This cours is especially recommended to all Arts students who are not taking Late in their programme, and also to students of ancient history.

Texts: Various selections from the Classical writers of Greece and Rome.

Lectures: Three hours a week (or equivalent).

CLASSICAL HISTORY

CLASSICS 120: THE CLASSICAL CIVILIZATIONS OF GREEC

A general survey of the civilizations of ancient Greece and Rome will particular regard to political organization and cultural contribution modern western society.

Lectures: Three hours a week.

CLASSICS 203: HISTORY OF GREECE

A concentrated study of selected topics dealing with the main feature of Greek history, stressing both the greatness and the weakness ancient Greek society. This course is designed as a companion are parallel to Classics 204, which deals in the same manner with the history of Rome. This course may also be used as a history credit.

Lectures: Three hours a week (or equivalent).

CLASSICS 204: HISTORY OF ROME

A concentrated study of selected topics dealing with the main feature of Roman history, stressing both the greatness and weakness of the **10.1 Course is designed as a companion and parallel to 203, which deals in the same manner with the history of 11.1 Course may also be used as a history credit.**

Three hours a week (or equivalent).

DASSESS 205: HELLENISTIC HISTORY

encoded at the discretion of the instructor.

This is the period of the expansion of Greek culture over the world (Hellenism), giving rise to a highly complex historical era, thing many of the problems and features of 20th century life.

The source may also be used as a history credit.

secures: Three hours a week or equivalent.

ENMERCIAL LAW

of law; contracts; special types of contracts; real property; pers; partnerships; corporation; credit transactions; statutes business taxation.

Three hours a week, two semesters.

ECONDMICS

1012

Associate Professor, Chairman
Assistant Professor
Assistant Professor
Lecturer
Professor
Associate Professor

Exammended courses leading to a B. Comm. with a major in Economics

First Year	Second Year
English 101* Mithematics 113* Economics 102	English 120* Quantitative Methods 121–122 or 122–201 Accounting 201*
Elective	Business Administration 201* - Economics 202*

Third Year

Commercial Law 201* Economics 302+ Economics 306* Philosophy 120* Elective * Required Course

Fourth Year

Economics 303+ Economics Elective Economics Elective Elective Elective

+ The student may take either one of these or Math 120A - 120fulfill this requirement for a major. If he intends to pursue grad studies the student is advised to take both Economics 302 = Economics 303.

Note: See: Quantitative Methods for Commerce-Page 157

Recommended courses leading to a B.A. with a Major in Economic

First Year English 101

Mathematics 113

Economics 102

Second Year

English 120 Economics 202 History 111 (120) or 202 Philosophy 120 Elective

Third Year

Elective

Elective

Economics 302+ Economics 306 Elective Elective Elective *Required Course

Fourth Year

Economics 303+ Economics Elective Economics Elective Elective Elective

+ The student may take either one of these or Math 120A - 12 fulfill this requirement for a major. If he intends to pursue grad studies the student is advised to take both Economics 302 Economics 303.

102: ECONOMIC THEORY IN HISTORICAL PERSPECTIVE

A course in the development of modern economic society particular emphasis on the Canadian and U.S. economies. The pretation of microeconomic and macroeconomic theory, problem policies is designed for students not planning to major in economic

Lectures: Three hours a week, two semesters.

FRINCIPLES OF ECONOMICS

income determination; national accounting; business fluctuponey and banking; international economics; economic growth; and general price theory; theory of the firm; market structures; ion, cost, revenue and profit maximization; theory of distri-

Three hours a week, two semesters.

MATHEMATICAL ECONOMICS

mainte: Mathematics 113, Economics 202

to economics; set theory, relations, functions, probability, finite differences, matrix algebra. Applications of these are made to the solution of economic problems.

incourses: Three hours a week, two semesters.

USINESS AND ECONOMIC STATISTICS

inite: Economics 202

ons of statistical methods; collection; analysis and interpretation fitical data; frequency distribution; measures of central tendency persion; probability theory; binomial, normal, and sampling tions; testing hypotheses and estimations or parameters; index ess; time series, regression and correlation analysis.

Three hours a week, two semesters.

ECONOMIC HISTORY OF NORTH AMERICA

Economics 202

bourse acquaints students with the leading events and processes of mic history of North America in general, and of Canada in cular. Among the topics to be discussed are: the development of piture, industry and trade; the economic conditions which shape backing developments in both countries; the colonial links and fives; industrial and financial capitalism; twentieth century boments of industry, labour organizations, investments and trade

three hours a week, two semesters.

305: ECONOMIC HISTORY OF EUROPE

Prerequisite: Economics 202

The economic history of Europe from the Aegean civilizations to the establishment of the Common Market. Stages of economic grown birth of European civilization; medieval economic society; mercatilism; the first Industrial Revolution; laissez-faire and industria capitalism; Europe since 1914.

Lectures: Three hours a week, two semesters.

306: INTERMEDIATE ECONOMIC THEORY

Prerequisite: Economics 202

A balanced treatment of macroeconomic theory and microeconomic theory beyond the principles level.

Lectures: Three hours a week, two semesters.

307: MONEY AND BANKING

Prerequisite: Economics 202

Money, its standards, supply and value; inflation and foreign exchange Canadian Banking System and other banking systems and pubfinance; international monetary problems and their solutions; developments in international trade.

Lectures: Three hours a week, two semesters.

309: THE CANADIAN ECONOMY

Prerequisite: Economics 202 and the consent of the instructor.

The application of economic theory to the study of the structure and problems of the Canadian economy.

Lectures: Three hours a week, two semesters.

310: DEVELOPMENT ECONOMICS

Prerequisite: Economics 202

Alternative theories of growth and development; economic struct of developing and developed countries; economic and non-economic determinants of growth; development policy; role of government monetary policy, foreign trade and foreign aid; some lessons experience in growth and change.

Lectures: Three hours a week, two semesters.

DEVELOPMENT OF ECONOMIC IDEAS

misite: Economics 202

to the present. Students will be introduced to the theories of the seconomic schools especially in the light of their contribution to prover economic thinking.

Three hours a week, two semesters.

INTERNATIONAL ECONOMICS

Economics 202

pertaining to economic relations between nations. Foreign markets, balance of payments, adjustment mechanism and ational capital flows are discussed. The technique of the I.M.F. will aplained, together with the deficiencies of this world body.

Three hours a week, two semesters.

COMPARATIVE ECONOMIC SYSTEMS

Economics 202

work of the differences in decision-making and in the institutional produced by the North Atlantic civilization; (2) those built up in requence of the impostion of the Communist doctrine; (3) those by the underdevelopment prevailing in Asia, the Middle East the subtropical areas of the world.

Examples: Three hours a week, two semesters.

INDUSTRIAL ORGANIZATION

Berguisite: Economics 202 and 306 or permission of instructor.

boncept of industry; institutional forms of economic units; market beture; policies for promotion of competition; the methods of commental control of key industries; international aspects of betrial organization.

Leptures: Three hours a week, two semesters.

PUBLIC FINANCE

Economics 202

The role of taxes and government expenditures in terms of economic analysis. Application to Canada including a study of Federal-Provrelations.

Lectures: Three hours a week, two semesters.

319: LABOUR ECONOMICS

Prerequisite: Economics 202 or permission of the instructor.

Factors affecting wages, working conditions and employment industrial societies; the role of market forces and collective barger in wage determination; the development of labour unions and collebargaining in Canada the United States and Europe; the effect of unions on the economy; our changing labour force and many policies for the future.

Lectures: Three hours per week, two semesters.

323: SOVIET-TYPE ECONOMIES

Prerequisite: Economics 202

This course will cover such topics as the following: Development Soviet Economics – historical background, institutional framework rate of growth; the problems of saving, investment and central plan the Origin of the Soviet Block – Communist international economic the problems of economic integration in Eastern and Western Eu-East-West trade, economic reforms in Eastern Europe; the Sovie Economies in Asia.

Lectures: Three hours a week, two semesters.

EDUCATION M. MacMillan Acting Dean B. Hanrahan F. Phillips L. Scobbie D. Weeren F. Dockrill

Assistant Pro Assistant Pro Associate Pro Associate Pro Assistant Pro

(B. ED. COURSES)

401: PHILOSOPHY OF EDUCATION

A fundamental study of the nature and aims of education culmining in the formulation of a truly humanistic Philosophy of Education modern times.

Lectures: Three hours a week, two semesters.

SYCHOLOGY OF EDUCATION

bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the learner. Psychology 120 or equivalent is the prerequisite or concurrent requirement but may be waived for the bigustment of the bigustment but may be bigustment of the bigustment but may be bigustment but may

Three hours a week, two semesters.

GENERAL METHODS OF TEACHING

Explication of the elementary principles of Philosophy and **Explosy** of Education to the organization and presentation of matter in the classroom. Three hours a week, two semesters.

HISTORY OF EDUCATION

of our educational heritage aimed at assisting in the formation deducational principles and practices.

Three hours a week, two semesters.

FRACTICE TEACHING

teaching sessions will consist of observation and practice in the public school system. The extent and dates of these will be arranged by the Education staff.

CONTENTS AND METHODS OF SPECIFIC HIGH SCHOOL

which the junior and senior high school teacher of a given should be concerned with developing in his students, and the most conducive to that development.

Three hours a week, two semesters.

EDUCATION (M.A. COURSES)

EDUCATION 510: GRADUATE RESEARCH SEMINAR

commar in research techniques and statistical concepts culminating in the commentation and defence of theses.

PHILOSOPHY 511: PHILOSOPHICAL CRITIQUE OF MOTIVAL

A lecture and seminar course on the cultural significance of metaphysics of motivation. As a study of social exigencies in learning situation, this course is co-extensive with Philosophy 521 the perspective of ultimate motivations.

EDUCATION 516: ANGLO-AMERICAN EDUCATION

A lecture and seminar course on education in the United Kingdo United States of America, English-speaking Canada, and se countries with related educational patterns, aimed at the identifiand analysis of common and distinguishing properties, practice problems.

Sessions: Three hours a week, two semesters.

EDUCATION 519: EDUCATIONAL ADMINISTRATION

A seminar and lecture course analyzing the executive requirement institutional direction.

Sessions: Three hours a week, two semesters.

PHILOSOPHY 521: THEORY OF KNOWLEDGE

A lecture and seminar course based on Lonergan's Insight and dest towards developing an epistemology inherent in the learning property

Sessions: Three hours a week, two semesters.

COMPARATIVE EDUCATION 526: CONTINENTAL EDUCATION

A lecture and seminar course on education in selected Content European countries, including France, and selected societing related educational patterns, including French-speaking Canada at the identification and analysis of common and disting properties, practices and problems.

Sessions: Three hours a week, two semesters.

PSYCHOLOGY 532: PERSONALITY DEVELOPMENT

Prerequisite: Ed. 402, Psych. 331, 332, or by permission Professor.

A lecture and seminar course dealing with the main the personality and of personality development. Emphasis will be the Dynamic interpretation of development, with particular reto the school situation at all ages.

THOLOGY 542: MOTIVATION AND LEARNING

bisite: Education 402 (Psychology of Education) and Psychology sychology of Learning and Motivation), (or the permission of the soor)

through the findings of experimental psychology. The ing are examples of the type of topic dealt with: development of theory, conditioning, reinforcement, punishment, memory, learning. Application of learning theory to the classroom for will be encouraged.

Three hours a week, two semesters.

THOLOGY 552: PSYCHOPATHOLOGY OF EDUCATION

Example is the state of the sta

be remedy of failure in educational performance and in emotional be nemedy of failure in educational performance and in emotional benent, these being considered separately and also in their effects each other.

Three hours a week, two semesters.

THOLOGY 562: SOCIAL PSYCHOLOGY

Social Psychology), or the permission of the professor.

bology and the attempt to explain social behavior in terms of bology and the attempt to explain social behavior in terms of theories of cognitive consistency, perception of persons, attitude behavior is a social situation and application of the findings discussed be encouraged.

ENGINEERING

L. Donald B. Contham, D.A. Contham, D.A. Contham, D.A. Control of the second se Professor Assistant Professor Assistant Professor Assistant Professor Assistant Professor Instructor

102: ENGINEERING MEASUREMENTS

A course covering the theory and practices involved in all type engineering measurements. The course material falls into two mat divisions: 1) Surveying and 2) Electrical, Mechanical and other measurements.

1) Surveying methods, measurement of distance, difference elevation, direction angles. Circular curves, area and earth calculations; applications of astronomy to engineering.

2) Theory of measurements, analysis of experimental demonstrates and equipment for such measurements as electronic dimensional, pressure, flow, temperature, thermal conduction force, strain, sound, nuclear radiation.

Text: To be announced.

Lectures: Three hours lectures, two semesters.

Laboratory: Three hours, two semesters.

103: SURVEYING FIELD COURSE

Prerequisite: Engineering 102

Practical surveying problems; the orderly compilation and recording survey data. Transit and tape surveys, curve layouts, differed levelling. Profile plots and contour mapping. Astronomical observation

Text: To be announced.

105: PRINCIPLES OF ENGINEERING

An engineering course for freshmen which discusses the philosoppreliminary design and introduces the concepts of energy, economic thermodynamics, human factors and how these concepts are used engineers in their approach to engineering problems.

Text: An Introduction to Engineering & Engineering Design, See Edition-Edward V. Krick (John Wiley & Sons)

Engineering Design Computation Manual – David E. Boddy, Ph.D.

Lectures: Three hour lectures, two semesters.

Laboratory: Three hours a week, two semesters.

106: ENGINEERING DESIGN GRAPHICS

Engineering drawing and sketching with emphasis on sketching, and and synthesis of problems by using graphical methods as part design process, reading drawings, simple design projects. Design Graphics – James H. Earle, (Addison Wesley

Graphics and Design Problems – Earle, Cleland, Stark, Bardell, Vogel, and Guerard (Addison Wesley Publishing

Three hours a week, one semester.

Three hours a week, one semester.

MAND DESCRIPTIVE GEOMETRY PROBLEMS

Engineering 106.

curve fitting, team design, projects with emphasis on

Descriptive Geometry Problems – Earle, Cleland, Stark, Bedell, Vogel, and Guerard (Addison Wesley).

Three hours a week, one semester.

Three hours a week, one semester.

ESCRIPTIVE GEOMETRY

Engineering 106, Engineering 107

ipplication of descriptive geometry as an engineering tool; **ipplication** of descriptive geometry as an engineering tool; **ipplication**, topographical, geological and mining **ippons**.

Applied Descriptive Geometry – Warner and McNeary

Descriptive Geometry Problems – Warner and Douglass

one hour a week, on semester.

memory: Three hours a week, one semester.

GRAPHIC STATICS

bisites: Engineering 106, Engineering 107, Mathematics 121

Equilibrium polygon and polygonal frames for all systems of load graphical representation of shear and moment for non-continue beams; roof trusses, bents, including dead and live loads with fixed end and ends on rollers; simple cantilevers.

Text: Mechanics for Engineers - Beer & Johnson.

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

204: COMPUTER SCIENCE

An introduction to computer methods and the analysis of Engineer problems using the computer, including: introduction, history, physophy, Number Systems, Computer logic, logic circuits, the physic computer components, machine language and finally Fortract Language.

Text: Computer Science A First Course-Forsythe, Keenan, Organ Stenberg (John Wiley & Sons, Inc.)

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

301: KINEMATICS

Prerequisites: Engineering 106, Engineering 107, Mathematics 121.

Displacement diagrams for linkages, instant centers, layout and drag of some common mechanisms. Velocity determinations for linkages using instant centers and velocity vectors. Acceleration determine with the use of acceleration diagrams, coriolis acceleration. Solution velocity problems by analytical methods.

Text: Mechanism Problems – Series A – Hall & Azpell (Pine Publishing Corporation); Kinematics of Machines – Hinkle (Prese – Hall).

Lectures: Three hours a week, two semesters.

302: ENGINEERING MECHANICS (DYNAMICS)

Prerequisites: Mathematics 121, Mathematics 303 (concurrently).

Force, friction, determination of centroids and moments of int Rectilinear, curvilinear and rotational motion of particles and bodies; work, energy and power, impulse and momentum.

Text: Mechanics For Engineers - Beer & Johnson.

Lectures: Three hours a week, two semesters.

FLUID MECHANICS

Mathematics 121.

of fundamentals of fluid mechanics based on an engineering proach to compressible and incompressible fluids. Fluid and characteristics; fluid statics; conservation of mass and fuler's equation of motion and Bernoulli's equation, impulse in steady flow; and introduction to the boundary layer

Finciples of Fluid Mechanics-Kenyon (Ronald)

Three hours a week, one semester.

Three hours a week, one semester.

ETRENGTH OF MATERIALS

bisites: Graphic Statics 203 Mathematics, 303 (may be taken corrently).

Examply tical treatment of stress-strain relationships for tension, **tession** and shear; Matrix methods; torsion in shafts; axial force, **terce**, and moments in beams; design of members; deflection **tession**; columns; and statically indeterminate problems.

including metallic, inorganic non-metallic and organic testing and failure of materials under static and dynamic and base including; heat treating; and testing machines and standard tests.

Mechanics of Materials – Olsen (Prentice–Hall).

Three hours a week, two semesters.

Superinters: Three hours a week, two semesters.

ELECTRIC CIRCUITS – SEE PHYSICS 336

ENGINEERING THERMODYNAMICS

musites: Physics 222, Mathematics 121.

Sevelopment of the general energy equation and the First Law; the context Cycle and the development of the entropy concepts, steam enter plants, refrigeration and gas engine applications.

Thermodynamics - Van Wylen (Wiley)

Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

Kerin of Street

307: ENERGY CONVERSION

Prerequisites: Mathematics 222, Physics 222, Thermodynamics 306, Fluid Mechanics 303 (may be taken concurrently).

Theoretical heat engine cycles, modification of theoretical cycles in practice. Principles of operation of steam engine; steam nozzles and turbines; gas turbines and elementary jet propulsion. Reciprocating pumps, centrifugal pumps; water turbines; impulse and reaction turbines.

Text: To be announced.

Lectures: Three hours a week, two semesters.

308: SYSTEM DYNAMICS

Prerequisites: Physics 111, 121, Mathematics 222 (concurrently).

A unified treatment of electrical and mechanical systems. Circul elements: single energy-port and two energy-port elements. Generalized continuity and compatibility: Kirchoff's current and voltage lawa conservation of mass, momentum and energy. Formulation of differential equations; loop and node methods. Solution of equations; classical and LaPlace transform methods and basic circuit measurement. Transient and frequency analysis of linear systems. Simulation and analog solution of a variety of engineering problems.

Text: Introduction to System Dynamics – Shearer, Murphy and Richardson (Addison Wesley, 1967).

Lectures: Three hours a week, two semesters.

Supervised Problem Sessions: Three hours a week, two semesters.

ENGLISH

Full Time Faculty

Roger Crowther Janet Baker Lilian Falk Thomas Edward Flynn John Geoffrey Harrison Irene M. Hayes Denis P. Healy Roger A. MacDonald Kenneth MacKinnon Associate Professor (Chairman) Lecture Assistant Professor Associate Professor Associate Professor Assistant Professor Assistant Professor Assistant Professor Assistant Professor Assistant Professor Parkin Perkyns Pigot T. Seaman Snyder Pher J. Terry A. Whalen

States -

Lecturer Assistant Professor Assistant Professor Assistant Professor Assistant Professor Lecturer Assistant Professor

100 must be taken by all students entering the university Senior Matriculation credit in English.

120 normally will be prerequisite to all higher English courses.

one course at the 200 level may be included in a student's requirement for a major.

planning to register for higher English courses are requested to the department office for advance reading lists.

CRITICAL READING AND WRITING

meruisite: Junior Matriculation English or equivalent

sectors designed to help the student read with discrimination and the his insights in expressive prose.

Test: To be announced.

Three hours a week; two semesters.

INTRODUCTION TO LITERARY FORMS

Resequisite: English 100 or equivalent.

a britical introduction to the craft of the novel, poetry, and drama. **Suphasis** will be placed on major works from various periods of literary ady. This course is a prerequisite for all 300 level courses.

Text: To be announced

Exerctures: Three hours a week; two semesters.

140: LITERATURE SEMINAR FOR MAJORS

Prerequisite: English 100 or equivalent. This course also requires that 1. the student intend to major in English and 2. that he has completed or is concurrently enrolled in English 120.

It is proposed that this course be organized in substance as a practic criticism course. The syllabus would include four novels, four play and an anthology of poetry. The central difference between it and stock practical criticism course lies in the intention to have all member of the department involved in the seminars. One man would be appointed to supervise the course, but the seminars would be shared The course would meet once a week for a two hour seminar, supervise by two or three professors. As a result, students who are majoring English would be exposed to the various points of view in the department before doing advanced work.

Text: To be announced.

Lectures: Two hours a week; two semesters.

201: THE MODERN NOUVELLE

Prerequisite: English 120.

A course designed to introduce the student to a wide range of shore novels which illustrate both the rich diversity and the fundament unity of concern which characterise the modern imaginative and cultural consciousness of the West.

To examine, within this broader cultural context, the manner in whet those literary conventions, elements and emphases characteristic of novel in general and of the nouvelle in particular lend themselves we peculiar appropriateness to the imaginative illumination of certaimportant areas of contemporary emotional, moral and some experience.

Text: To be announced.

Lectures: Three hours a week; two semesters.

202: THE EUROPEAN NOVEL IN TRANSLATION

Prerequisite: English 120.

A course designed to introduce the student to a wide range of Europeonovels – French, German and Russian – which have had a decinfluence upon the evolution of prose fiction and upon the formed of the cultural consciousness of the West during the nineteent twentieth centures.

To be announced.

Three hours a week; two semesters.

CANADIAN LITERATURE

respirate: English 120 or its equivalent.

is elections of texts and emphasis will be left to the lecturer; the **indue** of the course would be in creating and maintaining an **inducatory and experimental atmosphere**.

To be announced.

Three hours a week; two semesters.

THAKESPEARE

Examplisite: English 120 or equivalent.

Labour's Lost; The Merchant of Venice; Twelfth Night; As You Hamlet; Othello; Anthony and Cleopatra; The Winter's Tale. Hamlet; Othello; Anthony and Cleopatra; The Winter's Tale.

To be announced.

Three hours a week; two semesters.

THE DEVELOPMENT OF DRAMA IN THE THEATRE

Emplisite: English 120.

course will trace in outline the history of drama in relation to the theatre from its inception to contemporary styles, with particular sence to the Greek and Roman classical theatre; the religious origins becularization of English drama; the Elizabethan Playhouse; the component of the private theatre and Prosecenium stage; the clash of bianism with the Restoration and 18th century theatre; pioneers of new stage craft in the later 19th and 20th centuries.

Text: To be announced.

Lectures: Three hours a week; two semesters.

BOI: ORIGINS AND DEVELOPMENTS OF THE ENGLISH

English 120.

A course designed to acquaint the student with the nature of language and its growth. The student will be instructed in the basic technique linguistic analysis.

Text: To be announced.

Lectures: Three hours a week; two semesters.

302: MIDDLE ENGLISH : 1100 to 1400

Prerequisite: English 120.

Selections representing the major writing in English throughout period. Special emphasis is placed on the language and style of works.

The course is also attentive to the significance of the period as a source relating to the continuity of English Literature.

Text: To be announced.

Lectures: Three hours a week; two semesters.

303: CHAUCER AND HIS CONTEMPORARIES

Prerequisite: English 120.

The course studies the poetry of Chaucer in depth, reference contemporaries of Chaucer such as Wm. Langland, and may extended consideration of the 'Scottish Chaucerians'.

Text: To be announced.

Lectures: Three hours a week; two semesters.

304: TUDOR POETRY AND PROSE

Prerequisite: English 120

A study of the poetry and prose mainly of the Tudor era. emphasis will be given to the works of Wyatt, Surrey, Sidney Spenser.

Text: To be announced.

Lectures: Three hours a week; two semesters.

305: SHAKESPEARE: POEMS AND PLAYS

Prerequisite: English 120.

An extensive study of Shakespeare's comedies, romances, tragesonnets. This course also involves attention to the background Elizabethan society and theatre. managed.

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EXAMPLE AND JACOBEAN DRAMA

English 120.

the announced.

Three hours a week; two semesters.

ENTREENTH CENTURY POETRY: 1600-1660

English 120.

Donne and the Metaphysicals, Marvell, the Cavalier poets,

The be announced.

Three hours a week; two semesters.

RESTORATION AND EIGHTEENTH-CENTURY POETRY AND

English 120.

Butler, Dryden, Swift, Pope, and Johnson.

To be announced.

Three hours a week; two semesters.

THE NOVEL: DEFOE TO AUSTEN

English 120.

brigin and development of the English novel. Special emphasis is breed on the works of Defoe, Richardson, and Fielding. the study may be include representative works of Sterne, Smollett, Goldsmith, Mary Spalley, Godwin, several Gothic novelists, and Jane Austen.

Text: To be announced.

Lectures: Three hours a week; two semesters.

310: THE NINETEENTH CENTURY NOVEL

Prerequisite: English 120.

Authors may include Jane Austen, Dickens, Thacheray, The Bront George Eliot, Hardy, Meredith, James.

Text: To be announced.

Lectures: Three hours a week; two semesters.

311: ROMANTIC POETRY

Prerequisite: English 120.

A study of the origins and development of the English Roman movement. Major emphasis will be placed on the works of Blake Wordsworth, Coleridge, Shelley, Keats and Byron.

Text: To be announced.

Lectures: Three hours a week; two semesters.

312: VICTORIAN POETRY AND PROSE

Prerequisite: English 120.

The course is designed to acquaint student with the attitudes and idea of the writer in the Victorian period. Arnold, Browning, and Tennand are studied in depth.

Text: To be announced.

Lectures: Three hours a week; two semesters.

313: NINETEENTH-CENTURY NORTH AMERICAN LITERATUR

Prerequisite: English 120.

Major writers of the 19th century. Critical reading of works by Cocce Hawthorne, Melville, Emerson, Thoreau, Whitman, Emily Dicking James.

Text: To be announced.

Lectures: Three hours a week; two semesters.

314: TWENTIETH-CENTURY NORTH AMERICAN LITERATUR

Prerequisite: English 120.

Representative figures in the modernist tradition. A consideration the work and place of such writers as Dreiser, Hemingway, Fault

Traild, Mailer, Pynchon; in poetry that of T.S. Eliot, Robert Frost, Chane, and others.

To be announced.

mes: Three hours a week; two semesters.

MODERN ENGLISH POETRY

Freeduisite: English 120.

sindy of the major poets of the modern era. Authors will include berty, Hopkins, Eliot, Pound, Yeats, and Auden. The course will also and reference to English poetry of the fifties and sixties.

Text: To be announced.

Lectures: Three hours a week; two semesters.

TWENTIETH CENTURY DRAMA

requisite: English 120.

study of the major dramatists from the late 19th century to memporary movements. Dramatists studied include Ibsen, Chekhov, Mendberg, Shaw, Synge, O'Casey, O'Neill, Pirandello, Brecht, Wilder, Mams, Miller, Beckett, Ionesco, Pinter, Osborne, and Albee.

Test: To be announced.

Lectures: Three hours a week; two semesters.

317: LITERATURE, THOUGHT, AND ART – 1880-1930

Freequisite: English 120.

This is not a course in the history of ideas. It is an exploration of the entionship between the cultural background of the period and its effect on imaginative works.

Text: To be announced.

Lectures: Three hours a week; two semesters.

318: THE MODERN NOVEL

Ferequisite: English 120.

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Text: To be announced.

Lectures: Three hours a week; two semesters.

319: THEORY AND PRACTICE OF CRITICISM

Prerequisite: English 120.

A study of basic dispositions and their graces and defects in actual confrontation with given imaginative works.

Text: To be announced.

Lectures: Three hours a week: two semesters.

320: SPECIAL AUTHOR

Prerequisite: English 120 and at least two 300 level courses.

A tutorial course open to students who prove themselves worthy studying a given author in depth.

Text: To be announced.

Tutorials: By arrangement with supervisor.

321: SPECIAL SUBJECT

Prerequisite: English 120 and at least two 300 level courses.

A tutorial course open to student who prove themselves worth studying a special theme or movement in depth.

Text: To be announced.

Tutorials: By arrangement with supervisor.

FINE ARTS

D. Fogarty, S.J.

121: SCULPTURE

Experience with the models, methods, and materials of three distances sional art form with emphasis upon the application of such experiences to the more abstract values of the humanities.

This course may be taken for credit in any program towards the dependent of Bachelor of Arts.

Lectures: Three hours a week.

FRENCH

Guy LePierres F. J. Devine, S.J. Gilles Cossette Assistant Professor, Charge

Profile

108

Backriss Backriss Barphy Instructor Assistant Professor Assistant Professor

Comrses beyond the 102 level are taught in French.

MENCH 102: ORAL AND WRITTEN FRENCH

manusite: Junior Matriculation French.

because based on modern principles of linguistics whose sector bective is the development of the ability to speak French. It is beented by a Workbook for written composition and by oral sector in the language laboratory.

Perspectives de France – Bieler, Haac, Léon, Lessons 1-15. **Hall**) Workbook for Perspectives de France.

Three hours a week, two semesters.

Laboratory: Three half hours a week, two semesters.

RENCH 120: INTERMEDIATE ORAL AND WRITTEN FRENCH

bisite: Senior Matriculation French or French 102.

Examplify free compositions in French on topics of current interest.

Perspectives de France – Bieler, Haac, Léon, Lessons 16-32. Hall) Workbook for Perspectives de France.

serines: Three hours a week, two semesters.

Laboratory: Three half hours a week, two semesters.

FIENCH 200: INTRODUCTION TO FRENCH LITERATURE

French 120.

This course is OBLIGATORY for all students whose major mentation is French.

Ext: Lectures classiques et Modernes. Hall et Michaud (Odyssey) Extrap's French – English Dictionary.

Leitures: Three hours a week, two semesters.

FRENCH 201: ADVANCED CONVERSATION AND CULTURAL STUDIES

This is a thoroughly practical course intended to further develop the student's ability to speak French. The cinema and various formation French cultural life will be discussed in class. Oral practice in the Language Laboratory. Course restricted to 20 students.

Text: L'Art de la Conversation - Lenard and Hester (Harper and Rog

Lectures: Three hours a week, two semesters.

FRENCH 300: XVI CENTURY FRENCH LITERATURE

Texts: XVIe Siècle – Lagarde et Michard (Bordas); Cinna – Cornel Iphigénie – Racine; Les Précieuses Ridicules – Molière.

Lectures: Three hours a week, two semesters.

FRENCH 301: XVII CENTURY FRENCH LITERATURE

Texts: XVIIe Siècle-Lagarde et Michard (Bordas); Cinna-Cornel Iphigénie-Racine; Les Précieuses Ridicules - Molière.

Lectures: Three hours a week, two semesters.

FRENCH 302: XVIII CENTURY LITERATURE

Texts: XVIIIe Siècle – Lagarde et Michard (Bordas); Candide – Voltaire; Discours sur l'origine et les fondements de l'inégalité parme hommes – Rousseau; Le Mariage de Figaro – Beaumarchais.

Lectures: Three hours a week, two semesters.

FRENCH 307: XIX CENTURY ROMANTICISM

Texts: XIXe Siècle – Lagarde et Michard (Bordas); Atala – Chatter briand; Ruy Blas – Hugo; Poésies Choisies – Musset.

Lectures: Three hours a week, two semesters.

FRENCH 308: XIX CENTURY REALISM

Texts: Le Rouge et le Noir, La Chartreuse de Parme – Stender Madame Bovary, L'Education Sentimentale – Flaubert.

Lectures: Three hours a week, two semesters.

FRENCH 309: XX CENTURY LITERATURE FROM 1900 to 195

Texts: XX Siècle – Lagarde et Michard (Bordas); L'Otage – Clare Les Grand Meaulnes – Alain-Fournier; Vol de Nuit – Saint-Exure Desqueyroux – Mauriac; Antigone – Anouilh; La Peste –

Three hours a week, two semesters.

TENCH 310: CONTEMPORARY FRENCH LITERATURE.

Anthologie vivante de la littérature d'aujourd'hui – Pierre de la littérature

Sectores: Three hours a week, two semesters.

ENCH 312: FRENCH CANADIAN LITERATURE

Experience Survey of French Canadian Literature with special emphasis on the novel from 1930 to the present day.

Bat: Histoire de la Littérature française du Québec – Pierre de **Bandpré** (Beauchemin).

E-plures: Three hours a week, two semesters.

FIDNCH 313: FRENCH CIVILIZATION

study of France and of the French people, history, political studies, social, economic and cultural life.

Text: Guide France (Hachette); France de Nos Jours – Carlut et Bree **France** (Hachette); France de Nos Jours – Carlut et Bree

Leptures: Three hours a week, two semesters.

RENCH 314: EVOLUTION OF THE FRENCH NOVEL

Charse description: An examination of the principal stages in the **inclopment** of the French Novel.

Texts: La Princesse de Clèves – La Fayette; Manon Lescaut - l'abbé Frost; La Nouvelle Héloise, extraits – Rousseau; Eugénie Grandet – Fizac; Le Rouge et le Noir – Stendhal; Madame Bovary – Flaubert; Assommoir – Zola; Du côté de chez Swann – Proust; La Condition Finaine – Malraux; L'Etranger –Camus; La Modification – Michel Fror.

mmmer reading is strongly advised.

Lectures: Three hours a week, two semesters.

FRENCH 315: THE FRENCH THEATRE

Course description: A study of some of the major works of French **Tramatic** literature. Texts: Le Cid – Corneille; Le Bourgeois Gentilhomme – Moliè Andromaque – Racine; Le jeu de l'amour et du hasard – Marivaux, Le Barbier de Séville – Beaumarchais; Lorenzaccio – Musset; Le Corbeaux – Becque; Siefgried – Giraudoux; La Reine Morte – Montherlant; Les Mains Sales – Sartre.

Lectures: Three hours a week, two semesters.

FRENCH 316: POETRY IN FRANCE

A study of the evolution of French poetry from the Renaissance to the present day with special emphasis on its relation to the visual arts.

Text: Le Livre d'Or de la Poésie française - Pierre Seghers. (Marabo

Lectures: Three hours a week, two semesters.

GEOLOGY

D. Hope-Simpson Q.A. Siddiqui Associate Profes

111: INTRODUCTION TO GEOLOGY

The Earth as a plane; minerals and rocks; surface and deep-second processes. Structural evolution of North America with special reference to the Maritime area. Historical Geology. Economic Geology.

Text: To be announced.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

Field work as specified.

201: CRYSTALLOGRAPHY AND MINERALOGY

Morphological classification and atomic structure of crystals; chemimineralogy and determinative mineralogy.

Text: To be announced.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

202: PALEONTOLOGY

Fossils, their nature and mode of preservation. The morphological classification and stratigraphic ranges of the main groups of invertebrate fossils. Elementary vertebrate paleontology.

To be announced.

Learnes: Three hours a week, two semesters.

Constantory: Three hours a week, two semesters.

301: OPTICAL MINERALOGY AND PETROLOGY

Reequisite: Geology 111.

requisite or concurrent: Physics 111, Chemistry 121; Geology 201.

the optical properties of minerals. The description and interpretation **precous**, sedimentary and metamorphic rocks.

Text: To be announced.

Leptures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

STRATIGRAPHY AND HISTORICAL GEOLOGY

merequisites: Geology 111. Geology 202 strongly recommended.

Surciples of stratigraphy. Historical Geology and Tectonic Evolution of Surth America. Principles of Stratigraphic Paleontology; Paleoecology; Ficies; Faunal and Floral Assemblages.

Text: To be announced.

Exercise: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

303: STRUCTURAL AND FIELD GEOLOGY

Prerequisite: Geology 111

terpretation. The graphical analysis of structural field observations. Tectonics.

Students are strongly recommended to attend the Maritime Universities Geological Field School early in May proceeding or following this pourse.

401: ECONOMIC GEOLOGY

Prerequisite: Geology 301

Prerequisite or concurrent: Geology 303

The Occurrence and Classification of Ore-Deposits. Theories of Origin Field and laboratory investigations. Surface and Underground Mapping Problems.

Text: To be announced. Reference to Journals.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

404: MICROPALEONTOLOGY

Consent of the Department required.

Principles of Micropaleontology: major groups of micro-fossils and the use in the petroleum industry. Paleocology and correlation. Technique of collection, preparation and identification.

Text: To be announced.

Lectures: Two hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

Field work as required.

GERMAN

Roman Nahrebeckyj

Assistant Profe

100:

An introductory language course for those beginning the study German. Basic linguistic structures will be studied with particular emphasis on the oral aspect.

Text: To be announced.

200:

Prerequisite: German 100

This course presents an intensified study of grammar and syntax and the reading of German texts.

Text: A Practical German Review Grammar – Emory E. Cochran. 250: GERMAN LITERARY PROSE

The aim of this course is to familiarize the student with the article qualities of German literary prose. Summaries, compositions and shore essays will be written.

Text: To be announced.

114

MODERN GERMAN LITERATURE

study of trends in modern German literature (Naturalism, Expressionism).

THE ROMANTIC AGE

requisite: German 250 or equivalent.

purpose of this course is to provide the student with an **constanding** of the characteristic traits of German poetry and prose Romantic Age.

tales and historic tales by L. Tieck, Novalis, H. von Kleist, C. **Example**, A. von Arnim, A. von Chamisso, E.T.A. Hoffmann, L. **Example**, J. von Eichendorff and H. Heine will be read and discussed.

hours per week; two semesters.

HITORY

Sibeth Chard Bislaw Bobr-Tylingo Sert Bollini Dibeth Haigh Harmond Chard Kiesekamp In MacCormack Mace Mills Inny Sun Serge F.W. Young Assistant Professor, Chairman Associate Professor Assistant Professor Lecturer Lecturer Associate Professor Lecturer Assistant Professor Assistant Professor

EPARTMENTAL POLICY

- To obtain a major concentration in History a student is required to have FIVE university credits in History beyond the 120 level. A History credit from high school or a credit for courses 111-114 will satisfy the Bachelor of Arts requirement of a compulsory History credit but will NOT count towards the History concentration. A History major therefore will have six university History credits in his/her B.A. degree programme.
- At least 50% of a student's elective work must be done at the 300 level or above. Suggested supporting courses for History majors include: Political Science, Economics, Psychology, Anthropology, and Sociology.
- 3) The Honours Programme in History follows the regulations as stated in this calendar.

- (4) All students majoring in History must have two university credit in one foreign language. In the case of students majoring in Canadian History, French is specified as the language required.
- (5) The programme for a major in History must be approved by the Chairman of the Department.

COURSE DESCRIPTIONS (GENERAL)

- (a) All History courses are full credits and are year-length course (For the 1970-71 academic year, the only exception to this we be History 300.)
- (b) History 111, 112, 113, and 114 are survey courses which fulf the University requirement of one History credit for the BA degree. A course in this grouping does NOT count as one of the five required for a major in History. These courses normal combine lectures with small tutorial group meetings. Three how per week is the time allotment.
- (c) History courses on the 200 and 300 level are frequent structured to consist of both lectures and seminars. The perrequisite for courses on these two levels will be at least University credit in History. Two hundred level courses normal meet for 3 hours per week; three hundred level courses for hours per week.
- (d) History courses on the 400 level are seminar courses designed for advanced work by History majors and honours students in the junior and senior years. These classes meet 2 hours per week.

COURSE OFFERINGS FOR THE 1970-1971 ACADEMIC TERM

History 111.	History 211	History 320	History 332
History 112	History 212	History 321	History 333
History 113	History 303	History 323	History 334
History 114	History 311	History 326	History 408
History 203	History 315	History 328	History 410
History 209	History 317	History 329	History 411
History 210	History 319	History 331	

110:

Students eligible for advanced standing in History from sea matriculation will be given credit for this course.

CIVILIZATION IN THE WEST

designed to explore the origins and development of the **bistic** political, legal, and cultural institutions of western **bistic** nons and their impact on other cultures.

ESTORY OF CANADA (FORMERLY HISTORY 202)

buch regime, the rivalry with Great Britain for control of the British colonial rule, Confederation, and the development of status.

and the second

EXAMPLE 207 CONTRACT OF THE UNITED STATES

of U.S. history from its colonial beginnings to the present. will be given to the central themes of U.S. history from the lation to World War II.

A HISTORY OF BRITAIN - 1066 TO THE PRESENT

course will involve a survey of British History from the Norman mest to the advent of the Wilson Government. Major emphasis will bration will also be given to social and cultural issues. The sof Scotland, Ireland, and Wales will be considered only insofar are reflected in the history of Britain as a whole. The course will be mes rather than narrative history.

THE TWENTIETH CENTURY

be placed upon the backgrounds to World Wars I and II; the pence of the United States as a world power; the Communist pence of an industrial society.

EUROPE: 1815-1945

controduction to nineteenth and twentieth century Europe with cular emphasis on the diplomatic background of the First and world Wars.

B5: HELLENISTIC HISTORY (CROSS-LISTED, CLASSICS 205)

Equisite: one course in Classics or History. Other students may be writed at the discretion of the instructor.

course considers the characteristics of the Hellenistic world from mander the Great until the arrival of Pompey in the east (334 B.C. to 63 B.C.). This is the period of the expansion of Greek culture over eastern world (Hellenism), giving rise to a highly complex historical one containing many of the problems and features of 20th century

209: MODERN EAST ASIA

China and Japan in the 19th and 20th centuries as they confront modern West with special emphasis on the contrast between Chicaresponse and that of Japan.

210: MODERN LATIN AMERICA

A survey of the emergence and historial development of the Landau American Nations since their independence from Spain and Portugate the early 19th century. The course will focus especially on the politic economic and social evolution of the more populous nations.

211: THE HISTORY OF SCIENCE

An introductory survey of major developments in the field from earliest times. Special emphasis will be placed on the impact of science on society.

212: THE HISTORY OF RUSSIA, 882 TO THE PRESENT

An introductory survey with special emphasis on 19th and 2 century developments.

213: MEDIEVAL AND MODERN JEWISH HISTORY (CR LISTED, RELIGIOUS STUDIES 322)

A-survey of the History of the Jewish people with emphasis on social, religious, and cultural aspects of Jewry and its contribution world civilization.

222: HISTORY CREDIT FROM PROJECT PARALLEL

223: HISTORY OF GREECE (CROSS-LISTED, CLASSICS 203)

A concentrated study of selected topics dealing with the main feature of Greek History, stressing both the greatness and weakness of and Greek society.

This course is designed as a companion and parallel to History dealing in the same manner with the history of Rome.

THE HISTORY OF ROME (CROSS-LISTED, CLASSICS 204)

Boncentrated study of selected topics dealing with the main features Bonan history, stressing both the greatness and the weakness of the Bonan world.

course is designed as a companion and parallel to History 223, which deals in the same manner with the history of Greece.

DO: PRE-CLASSICAL ANCIENT HISTORY (CROSS-LISTED, THROPOLOGY 399)

- 2-

Mediterranean East – China – Mesoamerica and Peru. For the **10-71** academic session this course will consist each week of three 75 **10-71** academic session this will constitute a full credit.

BO2: HISTORY OF CANADA, 1867 TO THE PRESENT

two World Wars and international affairs will be some of the major two considered.

IB: TUDOR AND STUART ENGLAND

Examples to be a set of a set

504: HISTORY OF THE UNITED STATES TO 1865.

course from colonial times to the end of the Civil War with special phasis on the growth of democracy and the conflicting ideologies hich culminated in civil war.

IDS: HISTORY OF THE UNITED STATES, 1865 TO THE PRESENT

A course with emphasis on the political aspect of the evolution the United States, especially during the Reconstruction Era; the Degressive Era, the New Freedom and the New Deal. Attention will be paid to the emergence of the United States as a world power.

306: MONARCHY, REVOLUTION AND EMPIRE

The attempts of European societies to create a valid policy after the **bocks** of the Renaissance and Reformation. The course examines the **political**, economic, social and intellectual history of Europe from the **and of** the Thirty Years' War to Waterloo (1648-1815).

309: THE PRE-REFORMATION CHURCH (CROSS-LISTE RELIGIOUS STUDIES 309)

A detailed study of the various problems, political, intellectual areligious, which had their origin during the period of early medicate Christendom, reached their climax towards the late middle ages, are resulted in the Reformation.

311: MEDIEVAL ENGLAND

Emphasis will be placed on constitutional development and characteristic relations.

312: MEDIEVAL EUROPE

The main currents of medieval European history with special employeen on the intellectual and cultural aspects.

313: EUROPE, 1815-1870

In this course particular emphasis will be placed on the histor France, on the revolutions of 1848-1849, and on the unification Germany and Italy.

314: EUROPE, 1870-1945

Emphasis will be placed upon the backgrounds of World Wars I and and the problems of modern industrial society.

315: MODERN BRITAIN

The course examines the relationship between social change appoint of nineteenth century Europe particular reference to the emergence of new values in a society at an insular and European.

316: FOUNDATIONS OF AMERICAN HISTORY: Colonial Period 1789

A course which is concerned with the foundations of the American nation. Attention will be given to colonization, the growth of Thirteen Colonies, their relationship with Great Britain culminating the Revolution and the Establishment of the United States of American

317: AMERICA IN THE NINETEENTH CENTURY

A course which discusses the growth of the United States from a agrarian-importing nation to an industrial exporting nation. Emphasically, will be on the internal problems of developing the country, expanding into the West, waging a Civil War, and the triumph of the industrial exponent.

THE AMERICA IN THE TWENTIETH CENTURY

concerned with the rise of financial capitalism and the United

CENADIAN-AMERICAN RELATIONS

Bagland and the Maritime Provinces. Political as well as social, Bagland and the Maritime Provinces. Political as well as social, and religious trends will be analyzed. Some opportunity will barded students to use the vast quantity of primary source material bablic Archives of Nova Scotia.

BRITISH EMPIRE-COMMONWEALTH

endy of trends in 18th and 19th century Britain with special endasis on the practice and theory of imperialism.

THE AFRICA IN THE 19th AND 20th CENTURIES

bok at some African societies and their values, with some **bination** of the phenomena of European intrusions, conquests and **bialism** and their impact on African societies.

SOUTH AFRICA

by of the complex inter-relationships and conflicts arising from the cultures, religions and skin colours from the 17th century to partheid" state of the mid-twentieth century.

THE HISTORY OF CHINA, 618-1911

ting the T'ang, Sung, Ming and Ch'ing dynasties, with special relation to factors affecting the rise and decline of dynasties.

THE HISTORY OF JAPAN, 710-1868

study of the evolution of Japanese society and culture from the Nara biod to the Tokugawa shogunate in the 19th century. Special schasis will be placed on the transition from the period of imitation the Chinese model to the emergence of a characteristically Japanese source.

THE IBERIAN EMPIRES IN THE NEW WORLD, 1492-1810

The History of colonial Latin America with special emphasis on the Berian maritime expansion, conquest, and colonization of the New World; the survival and continuing influence of the American people the Colonial World; the impact of the African negro on Color society; and the administration, economy and final collapse of Empire.

326: THE IBERIAN PENINSULA FROM ROMAN TIMES TO THE PRESENT

A study of the History of Spain and Portugal from their Romfoundations to the present, with special emphasis on the period size the reigns of Ferdinand and Isabella.

327: A HISTORY OF NEW FRANCE TO 1791

This course will involve a study of the cultural, social, political economic development of the French regime in America. In addition will attempt to deal with the immediate consequences of the Congression insofar as they were reflected in this development.

328: A HISTORY OF BRITISH NORTH AMERICA, 1763-1867

This course will examine the major political, social, economic, religinant intellectual trends evident in British North America in the perfollowing the Treaty of Paris, 1763. Special attention will be given the historiography of this period.

329: HISTORY OF CANADA, 1849-1920

This course deals with the problems arising from the attempt to build British North American nation in the age of Macdonald and Laurier

330: STUDIES IN EIGHTEENTH CENTURY THOUG (CROSS-LISTED RELIGIOUS STUDIES 330)

A study of the major ideas of selected eighteenth century thinker of their influence on the religious and cultural life of the modern This course centers on the reading, discussion, and interpretation eighteenth century classics; special emphasis will be given to creation of the liberal democratic ideal in religion and politics and the establishment of critical methodology in the eighteenth century their consequent impact on the nineteenth and twentieth centuries

331: MODERN FRANCE, 1815-1940

The struggle of Frenchmen to reconcile the ambiguities of the revolutionary past with the exigencies of nationalism and state securities the theme of this course. Students will find a modest reached knowledge of French useful, if not essential.

THE SCIENTIFIC REVOLUTION

of the course is the study of the intellectual revolt which we the Scientific Revolution of Western Europe. The point is to man's reinterpretation of the natural universe in the context of prophical cultural and social milieu of the 16th, 17th, and 18th

A HISTORY OF CANADA IN THE 20TH CENTURY

and economic structure in the 20th century. Some attention be given to Canada's role as an emerging world power, her highlight with the United States, and her role within the British and Commonwealth. -12- 1

THE PURITAN REVOLUTION AND THE CROMWELLIAN

during the Puritan Revolution.

THE ERA OF THE FRENCH REVOLUTION

the set kground, course and impact of the French Revolution.

GERMAN FOREIGN POLICY, 1890-1945

bistory of Germany with special emphasis on German foreign

BRITISH FOREIGN POLICY, 1890-1945

Evaluar emphasis will be placed on Anglo-American relations, the **D**-French Entente before 1914, and Anglo-German relations **D**-1945. Students will be expected to do considerable research in **D**-plomatic documents of the period.

45: UNITED STATES FOREIGN POLICY 1890-1945

Supphasis will be placed on the emergence of the United States as a wild power prior to World War I; the retreat into isolation after 1918 American-Japanese relations to 1941.

THE POLITICS OF THE PEACE SETTLEMENT 1919-1921

a perminar in which students will be expected to work closely in the burnentary sources.

408: CHURCH AND STATE THROUGH THE AGES (CROSS-LIST IN 3 OTHER DEPTS.)

An inter-departmental seminar made possible by the cooperation the following departments: History, Philosophy, Political Science Religious Studies.

409: THE ERA OF THE AMERICAN CIVIL WAR

A course concerned with the causes and impact of the American Ow War.

410: A PERIOD IN THE HISTORY OF NOVA SCOTIA

A course designed for Honours History students who will be affected an opportunity to use the original material as found in the Para Archives of Nova Scotia. The course will be conducted as a semiwith presentation of papers on given topics as well as discussion these papers and related topics.

411: MODERN EAST ASIA, SELECTED PROBLEMS

Theme: The influence of the West on the modernization effort China and Japan during the 19th and 20th Centuries.

412: SPECIAL TOPICS IN PRE-CONFEDERATION CANAL HISTORY

This course will enable students to explore certain historiographic problems in Canadian History and to use primary source material extensively than is possible in lecture courses.

413: SELECTED PROBLEMS IN POST-CONFEDERATION

The course is designed to introduce the student in a detailed we some of the major problems of the Canadian national expension Particular emphasis will be placed on one or more of the following the political, economic, social, intellectual and/or religious dimension of this experience. Students will be introduced to some of the prime documents of the period.

414: PRO-SEMINAR IN LATIN AMERICAN HISTORY

A reading seminar involving an in-depth study and an historiogram research and interpretive paper on a selected period and/or prot the history of Latin America. The aim of this course is to give stude interested in the area a working knowledge of the historiography and/or problem under consideration. While not absolutely and a reading knowledge of Spanish or Portuguese is strongly

(See Classics)

INTHEMATICS

Singh, Cochrane Eser Kabe Hiller Silbey Singh Singh Assistant Professor, Chairman Assistant Professor Lecturer Associate Professor Lecturer Lecturer Assistant Professor Lecturer and it

ALGEBRA AND TRIGONOMETRY I.

Enguisite: Grade XI Mathematics

and and Trigonometry.

and Operations; Real Numbers; Functions; Relations; Graphs of mentary Functions; Elementary Trigonometry; Exponential stion; Linear and Quadratic Inequalities.

Test: To be announced

bries: Three hours a week, one semester brials one hour a week, one semester - half course.

B: ALGEBRA AND TRIGONOMETRY II

Equisite: Mathematics 110A

momials; Remainder Theorem; Matrices and Determinants; Matrices; Mathematical Induction; Probability.

Estures: Three hours a week; one semester. **Exprises** one hour week; one semester - half course.

12: NEW COURSE: MATHEMATICS FOR LIBERAL ARTS

Energuisite: Grade XI Mathematics.

A course intended to illustrate various aspects of modern matimatics. The material may differ from year to year. Problems and written assignments will form an integral part of the course. This courdoes not contain any formal material prerequisite for more advance courses.

113: MATHEMATICS FOR COMMERCE STUDENTS.

Prerequisite: Grade XI Mathematics.

Sets and subsets, real numbers, first degree equations, relations and functions, graphs, exponential, legarithums, inequalities, linear programming, permutations, combinations, probability, measure systems of linear algebraic equations, matrices and solution of linear systems.

Text: To be announced

Lectures: Three hours a week; two semesters Tutorials, one hour a week; two semesters.

120A: DIFFERENTIAL CALCULUS

Prerequisite: Grade XII Mathematics or Mathematics 110B.

Analytical geometry, inequalities, absolute values, functions and the graphs, limits and continuity, derivative, implicit differentiation application of derivatives to geometrical problems, mechanics and maxima, minima, second derivatives, curvatures, Rolle's Theorem, maxvalue theorm, differential and approximations.

Text: To be announced

Lectures: Three hours a week for one semester half course. Tutorials one hour for one semester

120 B: INTEGRAL CALCULUS

Prerequisite: Mathematics 120A.

Antiderivative, the definite integral, fundamental theorem of integral calculus, applications of definite integral, techniques of integration parametric and polar coordinates, Simpson's rule and approximation Algebra and complex numbers.

Text: To be announced

Lectures: Three hours a week; one semester Tutorial one hour a week, one semester half course.

ID2: APPLIED STATISTICS

Protequisite: Mathematics 120B.

The probability, probability, conditional probability, Bayesblace rule, binomial, hypergeometric, poisson, multinominal, form, exponential, gamma, beta, and normal distributions. The matical expectation, moments, moment generating functions. The bychev's theorem. Sums of random variables. Sampling distributions, bychev's theorem. Sums of random variables. Sampling distributions, so the set of the set. Linear regression and correlation. Bivariate normal distrition. The method of least squares.

the store

Text: To be announced.

Detures: Three hours a week, two semesters.

boratory: Three hours a week, two semesters.

E22: CALCULUS II

merequisite: Mathematics 120B

Send plane. Vectors, matrices and determinants. Vector algebra. Sinite sequences and series. Convergence. Taylor's series. Partial Ferentiation. Ordinary differential equations. Arc lengths. Multiple Segrals. Applications to simple numerical analysis.

Text: To be announced.

Detures: Two hours a week; two semesters.

Intorial: Two hours a week; two semesters.

225: INTRODUCTORY NUMERICAL ANALYSIS

requisite: Mathematics 120A-120B concurrently.

Finciples of digital computing. Truncation and roundoff error. Finite Ferences. Iterative techniques. Interpolation. Algebraic equations. Sumerical differentiation and integration. Quadratures. Differential suations. Error analysis.

Competency in a programming language must be demonstrated.

Text: To be announced.

Bectures: Three hours a week plus laboratory periods; two semesters.

50: ANALYSIS I

merequisite: Mathematics 111, with 120A-120B concurrently.

Set Theory. Countability Sequences.

Analysis on the real line. Convergence. Continuity. Uniform Continu ty. Applications to Calculus. Elementary Theory of Metric Space Application to Differential and Integral Equations.

305: THEORY OF A COMPLEX VARIABLE

Prerequisite: Mathematics 222.

The complex plane. Elementary transformations and mappings. An lytic functions. Branch points and cuts. Infinite series and unifor convergence. Conformal mapping. Complex integration. Cauchy's the rem. Residues. Liouville's theorem and the fundamental theorem algebra.

Text: To be announced.

Lectures: Three hours a week, two semesters.

312: LINEAR ALGEBRA

Prerequisite: Mathematics 222 concurrently.

Abstract systems. Fundamental properties of vector spaces. Line transformations and matrices. Linear equations and determinants. The Hamilton-Cayley theorem. Canonical forms. Metric concepts Function of matrices.

Text: To be announced.

Lectures: Three hours a week; two semesters. Tutorial: One hour a week; two semesters.

313: MODERN ALGEBRA

Prerequisite: Mathematics 222

A study of formal algebraic systems and integral domains, groups, refields and vector spaces and the deduction of their more importaproperties.

Text: To be announced

1.1

Lectures: Lectures three hours a week, two semesters.

314: STATISTICS II

Prerequisite: Mathematics 212 with Mathematics 222 concurrently

Non-parametric methods; simple tests and estimation of hypothese

Contents of sampling theory. Analysis of variance and related design of the second s

To be announced.

Three hours a week; two semesters.

metory: Three hours a week; two semesters.

TRODUCTORY OPERATIONS RESEARCH

isite: Mathematics 222 and Mathematics 312.

programming, Dynamic Programming, quadratic and crometric

To be announced

setteres: 3 hours a week; two semesters.

CRDINARY DIFFERENTIAL EQUATIONS

Enequisite: Calculus 222.

characteristical techniques of solving first and second order equations. There are a solutions. Transform methods. Non-linear characteristic solutions. Isoclines, and phase plane analysis. Various applications will Escussed in detail.

Texts: To be announced.

stares: Three hours a week; two semesters.

ES: CALCULUS III

Prorequisite: Mathematics 222.

matrices. Ordinary and partial differential equations. Laplace

Text: To be announced.

Detures: Three hours a week; two semesters.

Therial: Two hours a week; two semesters.

ISO: ANALYSIS II

Rerequisites: Mathematics 250 and 222 with 312 concurrently.

Bementary Topology. Metric Spaces. The Stone-Weierstrass Theorem. The Baire Category Theorem and applications. Equivcontinuity and the Ascoli-Arzela Theorem. Named linear spaces. The Hahn-Banach Theorem. Introduction to Hilbert Space. Stieltiers integral. Lebesgue integration. Fourier Series.

Text: To be announced.

Lectures: Three hours a week, two semesters.

405: COMPLEX ANALYSIS

Prerequisite: Mathematics 305

Analytic functions, residues, Laurent's series, Analytic continuation Conformal mapping, Riemann surfaces, Integnol transforms, specifunctions, Asymphatic expansions and applications.

Text: To be announced.

Lectures: Three hours a week, two semesters.s,

415: THEORY OF STATISTICS

Prerequisites: Mathematics 222.

Fundamental concepts and theorems of probability; Distribution functions as probability models of the discrete and continuous cases Moment generating functions; ampling distributions; Point and interest estimation; Statistical inference and hypotheses testing; Correlation and regression analysis.

Text: To be announced.

Lectures: Three hours a week, one semester - half course.

416: STOCHASTIC PROCESSES

Prerequisites: Mathematics 222 and 312

Probability models for physical situations; Branching processes; Rat dom walk; Markov chains; The Poisson Processes; The pure birth and death process; Waiting line and serving problems.

Text: To be announced.

Lectures: Three hours a week, one semester-half course.

417: INTRODUCTION TO STATISTICAL DECISION THEORY

Prerequisites: Mathematics 222, and 312. (Mathematics 213 is desired but not essential).

Statistical decision problems; Bayes decision rule; Linear programmand its applications to statistical decision problems; Minimax We

second tial rule; Conventional statistical theory and decision theory.

To be announced.

Three hours a week, two semesters-full course.

ANALYSIS III

statistics: Mathematics 350, concurrently or permission of the statistics.

Theory, lebesge intergration, dominated convergence, egoroff's **convergence**, egoroff's **convergence**, egoroff's

and her

To be announced.

Three hours a week; two semesters.

PARTIAL DIFFERENTIAL EQUATIONS

E-muisites: Mathematics 325.

Greens functions. Separation of variables, Poisson's integral. Transforms with emphasis on Laplace methods. Special func-

Test: To be announced.

_____two semesters.

S56: INTRODUCTION TO APPLIED MATHS

equisites: Mathematics 305 and 325

The course will deal with topics such as those given below:

Deer analysis and group theory, vector and tensor analysis, Interpotion, curve fitting and numerical analysis, conservation principles. Cheral discussion of ordinary and partial differential equations charing in physical problems leading to different types of boundary the problems.

Text: To be announced.

Extures: Three hours a week; two semesterss

57: FLUID MECHANICS I

Ferequisites: Mathematics 305, with 452 concurrently

Bementary theory of perfect fluids. Internal forces, conservation laws, Belerian and Lagrangian approaches. Complex potentials, sources and enks. Blasius' theorem, Flows past plates and cylinders. Text: To be announced.

Lectures: Three hours a week, two semesters.

PHILOSOPHY

Rolf Gruner Robert N. Ansell Richard H. Beis Lawrence Dewan R.C. Marshall Arthur P. Monahan William A. Stewart S.J. H. Lackner

Associate Professor, Chairman Assistant Professor Associate Professor Associate Professor Associate Professor Professor Assistant Professor

The courses from No. 120 to No. 129 inclusive are introductory and *alternative*. Normally, a student selects one of them according to him preference.

120: INTRODUCTION TO PHILOSOPHY

An introductory examination of Philosophy as an intellectual discipline and type of knowledge and of its method of treating such problems a the nature of reality, human knowing and human values.

Text: To be announced.

Lectures: Two hours a week; two semesters.

Seminar: One hour every second week.

121: INTRODUCTION TO PHILOSOPHY

W.A. Stewart

This course deals with five major philosophical problems: The problem of philosophy itself, of knowledge, of material being, of living material being, of man. The student is encouraged to seek intellectual satisfying answers for himself, and at the same time to examine critically some of the major historical and contemporary viewpoint. The course's primary aim is the development of method in philosoph and of the student's own critical intelligence and reflection.

Lectures: Two hours a week; two semesters.

Seminar: One hour every second week.

122: INTRODUCTION TO PHILOSOPHY

A.P. Monahan

effort to show what philosophy is, from an examination of what it **bes.** Selections from the history of the discipline as a background for **entemporary** philosophy.

Text: To be announced.

Esctures: Two hours a week; two semesters.

Spininar: One hour every second week.

23: INTRODUCTION TO PHILOSOPHY: LOGIC, MAN AND ICIENCE

and here

R.C. Marshall

First term: An introductory study of logic, including uses of language, formal fallacies, definition, forms of deductive and inductive argument.

becond term: An examination of philosophical problems which emerge from a consideration of human capacities and behaviour and physical phenomena. Perception and the reality of material things, reasons and pusses, free choice and necessity, minds and machines.

124: INTRODUCTION TO PHILOSOPHY: LOGIC AND **METHODOLOGY**

R. Gruner

A description and analysis of the most important tools of formal and aformal reasoning with discussion of the following topics: Basic logical ancepts; formal relations and arguments; language and meaning; aformal inferences and procedures.

25: INTRODUCTION TO PHILOSOPHY: SEMANTICS, LOGIC AND EENERAL PHILOSOPHICAL ISSUES

Evening Course)

LN. Ansell

The first term will be devoted to the development of precision, rigour and clarity in the student's thinking. Lectures will be supplemented by minars in which small groups will work through exercises in logic and mantics, of an elementary character.

During the second term general philosophical issues will be discussed in betures and seminars. Fundamental problems in ethics, philosophy of seligion, philosophy of mind, philosophy of perception and theory of the provide will be raised.

126: INTRODUCTION TO PHILOSOPHY

L. Dewan

What is meant by "philosophy"? Could it exist? Has it ever existed?—Peace and war, freedom, education, propaganda, drugt pornography: Has "the philosopher" anything worth hearing regarding these issues? Or regarding technology and the sciences? Does the human intelligence stand in need of liberation? Is a God a principle of enslavement or of liberation?—This course discusses these questions.

Reading list: To be announced.

127: INTRODUCTION TO PHILOSOPHY: THE BIG QUESTIONS.

H. Lackner

The examination of the most basic pre-suppositions of human life and knowledge, in the light of Kant's four questions,

What can I know? What ought I to do? What may I hope for? What is man?

Texts: To be announced.

Lectures and seminars three times a week.

128: INTRODUCTION TO PHILOSOPHY

An introduction to philosophy through the writings of the Great thinkers (Presocratics, Plato, Aristotle).

129: INTRODUCTION TO PHILOSOPHY

R. Beis

This course will introduce the student to philosophy through examination of problems arising within four areas of philosophy Ethics, Philosophy of Mind, Philosophy of Science, and Philosophy Language. Ethics will consider such problems as the nature of mona and freedom, and the relation of metaethical approaches to the problems. In the Philosophy of Mind the Mind-Body Problem and nature of consciousness and mental phenomena will be examined Philosophy of Science will inquire into the nature of scient explanation, laws, and theories. In the Philosophy of Language the of meaning, theories of signs, and language about God will investigated.

Texts: To be announced.

134

SO: MODERN LOGIC

introduction to the methods and problems of modern logic, Figured to introduce students to the theoretical structure of logic and Figure facility in its techniques.

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liest to be announced.

Lettures: Three hours a week, two semesters.

200: PHILOSOPHY OF BEING

Presequisite: Philosophy 120

introduction to basic problems in metaphysics and the philosophical distigation of God; and an introduction to basic problems in theory mowledge in the context of modern and contemporary philosophy.

Ext: Insight – Bernard Lonergan.

Epctures: Two hours a week, two semesters.

Spainar: One hour every week.

MARXIST PHILOSOPHY

rerequisites: None (Philosophy, Sociology or Economics Courses

an objective exposition and critical evaluation of the Philosophy of **Braism**.

Texts: The Development of Dialectical Marxism – Jordan; The Marxists – Mills; Essays on Politics and Philosophy – Marx.

bectures and Seminars: Three hours a week, two semesters.

11, PHILOSOPHY OF MIND

merequisites: None (Philos. 120 and/or Psych. 120 would be helpful).

bjective of course: To discuss attempts to answer one of the most portant philosophical questions of all times: What is man?

Texts: The Difference of Man and the Difference it Makes - Adler;

Theories of the Mind – Sher;

Bilosophy of Mind - Schaffer.

Lectures and Seminars: Three hours a week, two semesters.

250: GREEK PHILOSOPHY

A history of Greek philosophy with particular emphasis on its major figures, Plato and Aristotle.

Text: A history of Ancient Western Philosophy - Joseph Owens.

Lectures: Three hours a week, two semesters.

300: INTRODUCTION TO ETHICS

Prerequisite: Philosophy 120's.

An introduction to moral philosophy designed to acquaint student with historical expressions of basic ethical problems and with contemporary analytic approaches to ethics.

Text: Approaches to Ethics-Jones, Sontag, Beckner, and Goelin; Mon Philosophy-Garner and Rosen; various volumes from the History of Philosophy-Copleston.

Lectures and Seminars: Three hours a week, two semesters.

306: EPISTEMOLOGY

Prerequisite: Philosophy 120's.

An investigation of the problem of knowledge through a study of the epistemological thought of Bernard Lonergan.

Text: Insight - Bernard Lonergan.

Lectures: Two hours a week, two semesters.

Seminar: One hour every second week.

308: PHILOSOPHICAL LOGIC

Prerequisite: Philosophy 120's.

The course tackles philosophical problems surrounding, and arising of logic: the nature of logic and mathematics, analyticity, more properties, the *a priori*, logical truth, mathematical truth. (In relevance of these topics to the gauging of past, present and future philosophical techniques will be brought to the fore.) Subsidiary topic identity, proper names, the verb 'to exist' and the ontological argument, Russell's theory of descriptions, conditional statement entailment, Platonism, Nominalism, logical paradoxes.

Text: To be announced.

1000

Lectures and Seminars: Three hours a week, two semesters.

ISO: MEDIAEVAL PHILOSOPHY

bistory of the major philosophical doctrines and currents in western prope from the period of Augustine to the 15th century.

Text: History of Christian Philosophy in the Middle Ages-E. Gilson.

Exercise: Three hours a week, two semesters.

151: PHILOSOPHY OF SCIENCE

Perequisite: Philosophy 120

introduction to the main problems of the philosophy of science beigned to familiarize students with some of the contemporary palyses of scientific concepts and methods. - 2-

Text: Introduction to the Philosophy of Science-A. Pap.

Detures: Three hours a week; two semesters.

352: BRITISH EMPIRICISM

Ferequisite: Philosophy 120's.

history of the development of the empiricist school of British pilosophy from Francis Bacon to John Stuart Mill.

Text: Readings in Bacon, Hobbes, Locke, Hume, Bentham and Mill.

Jectures and Seminars: Three hours a week; two semesters.

33: CONTINENTAL IDEALISM, DESCARTES TO HEGEL

Ferequisite: Philosophy 120's.

A lecture and seminar course to examine the development of rationalist ind idealist thought from Descartes to Hegel.

Ext: Readings in Descartes, Malebranche, Spinoza, Leibniz, Kant, Echte, Schelling and Hegel.

Bectures and Seminars: Three hours a week, two semesters.

154: METAPHYSICS AS A KNOWLEDGE OF GOD

Perequisite: Philosophy 120's.

That is the idea of metaphysics? Is it possible? Does it exist? This pourse studies these problems while introducing the student to three classical works, the *Metaphysics* of Aristotle, the *Summa Theologiae prima pars* of St. Thomas Aquinas, and the *Critique of Pure Reason* of mmanuel Kant.

Lectures: Three hours a week, two semesters.

402: PHILOSOPHY OF THE SOCIAL SCIENCES

Prerequisites: Philosophy 120's and a second course in philosophy.

An examination of the logical and methodological problems which are in the social sciences and which touch upon the following topics empirical and theoretical concepts; explanation, generalization and the formation of theories; purpose and function; values and objectivity.

Texts: Philosophy of Social Science -R.S. Rudner; Readings in the Philosophy of the Social Sciences-M. Brodbeck (Ed.).

Lectures: Two hours a week; two semesters.

Seminars: One to two hours a week; two semesters.

449: THE PHILOSOPHY OF WITTGENSTEIN

Prerequisites: Philosophy 120 and a second course in philosophy.

A critical examination of Wittgenstein's philosophy, chiefly that of the late period.

Text: Remarks on the Foundations of Mathematics, The Blue and Brown Books, Philosophical Investigations-L. Wittgenstein.

Lectures, Seminars and Tutorials: Approximately three times per week two semesters.

452: PHENOMENOLOGY

-19-

Prerequisites: Philosophy 120 and a second course in Philosophy.

The origins, development, concepts, method and influence of phenomenological movement in contemporary Philosophy.

Texts: Selections from Husserl, Heidegger, Sartre, Merlau-Pere Reference: The Phenomenological Movement-H. Spiegelberg, 2 volume

Lectures and Seminars: Three hours a week, two semesters.

453: THE PHILOSOPHY OF HISTORY

Prerequisites: Philosophy 120 and a second course in Philosophy.

A critical study of major theories of historical knowledge; a contaction of the nature and value of history, and of its principle explanation, selection and evidence.

Texts: Philosophy of History – Walsh; Philosophical Analysis & Hir -Dray (Ed.).

Lectures and Seminars: Three hours a week, two semesters.

54: CONTEMPORARY EXISTENTIALIST THOUGHT

Ferequisites: Philosophy 120 and a second course in Philosophy.

Lecture and seminar course to examine the origins, expressions and semificance of nineteenth and twentieth century existentialism.

Thats: Readings in Kierkegaard, Nietzsche, Jaspers, Heidegger, Marcel, Datre, Camus.

Dectures and Seminars: Three hours a week; two semesters.

155: CONTEMPORARY ANALYTIC PHILOSOPHY

Perequisites: Philosophy 120 and a second course in Philosophy.

A lecture and seminar course to examine the origins, expressions and inficance of the contemporary analytic movement in philosophy.

Texts: Readings from representative members of the Analytic School.

Lectures and Seminars: Three hours a week, two semesters.

456: ADVANCED ETHICAL THEORY

Prerequisites: Philosophy 120 and a second course in Philosophy.

A lecture and seminar course to examine certain fundamental problems of contemporary ethics. Attention will be concentrated on metaethical problems which arise from and are discussed in the writings of Moore, Stevenson, Hare, Nowell-Smith, Frankena, Hampshire, and Brandt.

Text: Selected readings in the above mentioned authors.

Lectures and Seminars: Three hours a week, two semesters.

457: AUGUSTINE AND AQUINAS ON PHILOSOPHY

Prerequisite: Philosophy 120's.

A lecture and seminar course to explore the meaning of philosophy and its relation to theology in the writings of Augustine and Aquinas.

Lectures and Seminars: Three hours a week, two semesters.

459: PHILOSOPHY OF LANGUAGE

Prerequisites: Philosophy 120's and a second course in Philosophy.

A seminar course to examine the role of analogy, and perceptual vocabulary.

Text: To be announced.

Seminar: Three hours a week, two semesters.

PHYSICS

D. Murty W. Lonc S.J. G. McNevin U. Merdsoy G.F. Mitchell F. Tomscha Professor Chairman Assistant Professor Lecture Assistant Professor Assistant Professor Assistant Professor

NOTE: Students failing to complete a laboratory course prior to the date of examination will not be eligible to write the examination. Market will be awarded for the practical work and combined with the examination results for the final mark.

111: GENERAL PHYSICS

Introduction to mechanics, sound, light, heat and electricity.

Text: Physics-White (Van Nostrand).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

121: UNIVERSITY PHYSICS

120.0

Tutorial (Compulsory) one hour a week.

Prerequisite: Physics 111 or a knowledge of Grade 12 Physics and necessary and it will be essential for studens to be taking an Introductory Calculus course concurrently.

Topics will include: Mechanics, heat, sound, light and electricity.

Text: University Physics-Sears and Zemansky.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

222: OPTICS, ELECTRICITY AND MAGNETISM

Prerequisites: Physics 121 and Math 222 (Concurrently).

Optical Instruments, physical optics, including wave theory, polaristion.

Electricity and Magnetism; fundamental theory and concepts. Base electric and magnetic properties of materials.

Text: Optics by Sears, Addison-Wesley, Electricity and Magnetism – Search, Holt-Rinehart-Winston.

Exercise: Three hrs/per/wk, two semesters.

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134: THEORETICAL MECHANICS

recequisites: Physics 222 and Math 222 (concurrently).

troduction to Vector Analysis, work and potential energy, principle tritual work the damped harmonic oscillator, the forced harmonic bilator, motion of a particle under the action of a central force, duction of the Law of Force from Kepler's Laws, the Two-body belem and Kepler's 3rd Law. Motion of a system of particles, motion rigid bodies in three dimensions, generalized coordinates, holonomic and non-holonomic constraints, degrees of freedom, Lagrange's Equaters, Hamilton's Principle, the Hamiltonian Function, Hamilton's Intencial Equations, wave motion, the wave equation, DeBroglie's we Mechanics, Operator Method in Quantum Mechanics, brief broduction to Linear Operators, the Schrodinger Equation. and be

Text: Introduction to Theoretical Mechanics - R.A. Beckers,

Bectures: Three hours per week, two semesters.

B33: ELECTROMAGNETIC THEORY

Berequisites: Physics 222, Mathematics 222, Mathematics 333 (may be been concurrently).

Alternating currents, development of the theory of electric and agnetic fields, solutions of Maxwell's equations, theory of light, potential, images, skin effect, multipoles.

Pext: Electromagnetic Theory–Reitz and Milford (Wiley & Sons)

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

336: ELECTRIC CIRCUITS (ENGINEERING 305)

Prerequisite: Mathematics 222, Physics 121.

Circuit elements, equilibrium equations (mesh and node), the principle of duality, Laplace transforms, network theorems, energy and power, complex impedance and the use of phasors, steady state analysis of circuits, two-terminal networks two-terminal-pair networks and basic measurements. Text: Electrical Engineering Circuits-Skilling (Wiley)

Reference: Networks, Lines and Fields-Ryder (Prentice-Hall)

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

337: ATOMIC AND NUCLEAR PHYSICS

Prerequisites: Physics 222 and Maths 222.

Atoms, electrons, radiations, the nuclear atom, X-rays, and atoms structure, quantum theory of radiation, special theory of relativing group velocity and wave velocity, atomic spectra and atomic structure the nucleus, isotopes, natural radioactivity and the radioactive law artificial nuclear disintegration, artificial radioactivity alpha-decebeta-decay and gamma-decay, nuclear reactions, nuclear forces, nuclear fission, nuclear energy source, particle accelerators.

Text: Nuclear Physics-Irvin Kaplan (Addison-Wesley).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

339: PHYSICAL OPTICS AND OPTICAL INSTRUMENTS

Prerequisites: Physics 222, Mathematics 333.

Geometrical optics, optical design and instruments, Radiation laud wave behaviour of light and formulation of theories, Stimulated radiation and coherenc e theory, Lasers and Q-switching.

Text: Principles of Optics-Max Born and Emily Wolf.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

350: ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

Prerequisites: Mathematics 222, Physics 333 (may be taken concurrently).

Measurements of inductance, capacitance, and resistance, potenometers, magnetic measurements, illumination, high-voltage measurements and testing, electrical methods of measuring temperature, edu currents, measuring instruments, measurement of power, energy measurement of speed, frequency and phase difference. Text: Electrical Measurements and Measuring Instruments-Golding (Sir Instruments and Sons).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

151: ELECTRONICS

Prerequisites: Mathematics 222, physics 333 (may be taken concurrent-

Bectrical measurements, power supplies, application by vacuum tubes and transistors amplifier circuits, oscillators, comparison measurements, pervo systems, operational amplifiers for measurement and control, Bectronic switching and timing and digital counting systems, an integrated system of instruments, test equipment and rapid-connect parts, electrical signals and reactive circuits.

Text: To be announced

Lectures: Three hours a week; two semesters.

Laboratory: Three hours a week, two semesters.

B52: ADVANCED MECHANICS

Prerequisites: Physics 234 and Maths 222

A study of generalized mechanics with particular emphasis on those formulations required for quantum mechanics and statistical physics.

Copics will inclde: Lagrange's equations, Hamilton's canonical equations, variational principles transformation theory, the Hamilton-Jacobi method, continuous systems, fields.

Text: Classical Mechanics-J.W. Leech (Methuen)

Reference: Classical Mechanics-H. Goldstein (Addison-Wesley)

Lectures: Three hours a week, one semester-half course.

353: CLASSICAL THERMODYNAMICS

Prerequisites: Physics 234 and Math 222

Thermal phenomena from a macroscopic viewpoint: Temperature, bork, heat, internal energy, entropy, the laws of thermodynamics, other state functions, Maxwell's relations, applications to simple systems, criteria for equilibrium. Text: Thermodynamics – Vanderslice, Schamp, and Mason (Prentice-Hall)

Lectures: Three hours a week, one semester - half course. 450: TOPICS IN THEORETICAL PHYSICS

Prerequisites: Physics 234, Math 333.

Fluid dynamics, elasticity, tensor calculus, the theory of relativity.

The areas of greatest concentration will be decided upon in consultation with the students.

Texts: Fluid Dynamics -G.H.A. Cole (Methuen).

Tensor Calculus-B. Spain (Oliver and Boyd).

Lectures: Three hours a week, two semesters.

451: THERMODYNAMICS AND STATISTICAL MECHANICS

Prerequisites: Physics 333, Mathematics 333.

First and second law of thermodynamics and their application to simple thermodynamic systems and to chemical reactions. Kinetic theory and transport phenomena—in statistical mechanics the macro canonical and grand canonical ensembles, and Bose-Einstein and Fermi-Dirac statistic are discussed and applied to gases, electrons in metals, and low temperature physics.

Text: Thermodynamics and Statistical Mechanics-Zemansky.

Lectures: Three hours a week two semesters.

452: QUANTUM MECHANICS

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Prerequsiites: Physics 333, Mathematics 333.

Wave mechanical concepts—wave equation of Schrodinger—energy eigen function—examples of energy eigen functions—general principles of quantum mechanics— interpretative postulates of quantum mechanics —operators with continuous spectra—uncertainty principle—matrix mechanics—the equation of motion of operator—the Dirac notation for wave functions and operators—spin—Pauli's principle—time independen perturbation theory—collision processes—elastic scattering by fixed center of force—Born approximation—inelastic scattering processes— Dirac equation for a free particle.

Text: Quantum Mechanics-mandl (Butterworth Publication, London)

Lectures: Three hours a week, two semesters.

453: UPPER ATMOSPHERE

Prerequisites: Physics 333, Mathematics 333

Meteorological conditions in the lower stratosphere, structure and inculation of the upper stratosphere and mesosphere, the sun's indiation and the upper atmosphere, composition of the stratosphere and mesosphere, composition and structure of the thermosphere, heat inansfer and radiative processes, atmospheric tides and winds in the inver thermosphere, introduction to some other aeronomic problems, the transport properties in the upper atmosphere.

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Text: The Upper Atmosphere–Craig (Academic Press, New York).

Reference: Physics of the Upper Atmosphere-Ratcliffe (Academic ress, New York).

lectures: Three hours a week, two semesters.

454: INTRODUCTION TO SOLID STATE PHYSICS

Prerequisites: Physics 333

Prystal Structure; Lattics vibrations; Free electron Fermi gas; Band tructure; Properties of simple metals; semiconductors and insulators; Superconductivity.

Text: Introduction to Solid State Physics -- C. Kittel (Wiley and Sons)

Lectures: Three hours a week; one semester - half course

Laboratory: Three hours a week, one semester.

455: TOPICS IN ADVANCED NUCLEAR PHYSICS:

Prerequisites: Physics 337, Maths 333.

Forme selected topics in Nuclear Physics will be discussed. Topics will be **biented** towards research problems.

Reference: Alpha-Beta-Gamma Ray Spectroscopy. Vol. 1 and 2. K. Segbahn. (Norl-Holland)

Lectures: Three hours a week-one semester-one half-course

456: ASTROPHYSICS

Frerequisites: Physics 333, Maths 333.

An investigation of the physics of stellar structure with applications to the evolution of stars, nucleosynthesis, supernovae, and neutron stars. The relation of stellar physics to galaxy evolution and to the cosmological problem will be examined.

Text: To be announced!

Reference: Principles of Stellar Structure-Cox Giuli (Gordon and Breach)

Lectures: Three hours a week, one semester - half-course.

ASTRONOMY 301: INTRODUCTION TO ASTRONOMY

Prerequisites: Physics 121, Mathematics 121.

An introductory survey of astronomy with emphasis on physical principles. The Solar System: The structure and motions of the earth the moon, planetary orbits, properties of the planets, comets, meteors the sun. Properties of Stars: Radiation theory, stellar spectra, stellar atmospheres, stellar interiorrs, the evolution of stars, variable stars supernavae. Stellar Systems: Binary stars, star clusters, the structure of our galaxy, galaxies and the universe.

Text: Essentials of Astronomy - L. Motz and A. Duveen (Wadsworth)

Lectures: Three hours a week, two semesters.

There will be occasional evening observing sessions by arrangement.

POLITICAL SCIENCE

Theodore B. Ciuciura Robert G. Boyd Guy Chauvin William J. Dalton Edward J. McBride Robert Vaison Chairman, Professor Associate Professor Lecturer Professor Assistant Professor Instructor, Part-time

121: INTRODUCTORY POLITICAL SCIENCE

An introduction to the scope and methods of political science. The nature of the state will be examined, as well as the various purposes advanced for its existence. The student will be introduced to various aspects of government, political parties, international relations and political philosophies.

Text: To be announced

Lectures and group discussions: three hours a week, two semesters.

200: SCOPE AND METHODS OF POLITICAL SCIENCE

Prerequisite: Political Science 121

An introduction to the concerns and methodologies of modern political **b**cience. Included will be a discussion of theories and approaches **beveloped** by the empirical school of political scientists.

Text: To be announced.

Lectures and group discussions: Three hours a week, two semesters

202: DEMOCRATIC GOVERNMENT

An examination of the basic features of western democratic government. Great Britain, the United States and Canada are used as the main examples of this type of government. Considerable attention is paid to the ideological foundations of the modern liberal democratic state.

Text: To be announced.

Lectures and group discussions: Three hours a week, two semesters.

203: GOVERNMENT AND POLITICS IN THE SOVIET UNION AND EAST CENTRAL EUROPE

A survey of the history, culture and political institutions of the old Russian Empire and the U.S.SR. An analysis of the social and economic backgrounds of the political setting in the Soviet Union; the development and techniques of the one-party state; the installation of Communist regimes in East Central Europe.

Text: The Soviet System of Government-John N. Hazard (U. of Chicago Press) and The Soviet Union: An Introduction-George A. Lensen (Appleton-Century-Crofts).

Lectures and group discussions: Three hours a week, two semesters.

204: CANADIAN GOVERNMENT AND POLITICS

Prerequisite: Political Science 121 or equivalent.

A study of Canada's form of constitutional democracy, encompassing an analysis of political institutions and political parties. Aspects of Canadian federalism will be discussed.

Text: To be announced.

Lectures and group discussions: Three hours a week, two semesters.

205: INTERNATIONAL RELATIONS

Prerequisite: Political Science 121 or equivalent

An introduction to the foreign policies of the major democracies, the Communist powers, and the new states, and a survey of processes of conflict and co-operation in the world community, with specireference to trends towards regional integration and to problems of arms control and economic development.

Texts: Foreign Policy in World Politics – Roy C. Macridis, (ed.) 3rd. ed. (Prentice Hall) 1967, and International Politics–K.J. Holsti (ed.) (Prentice Hall) 1967.

Lectures and group discussions: Three hours a week, two semesters.

206: COMPARATIVE STUDY OF GOVERNMENTS: WESTERN EUROPE

Prerequisite: Political Science 121 or equivalent.

A detailed comparative analysis of the institutions and functions of the national political systems, primarily of the United Kingdom, France and Germany.

Text: To be announced.

Lectures and group discussions: Three hours a week, two semesters.

212: GOVERNMENT AND POLITICS OF THE U.S.A.

Prerequisite: Political Science 121 or equivalent.

An inquiry into the theory and practice, the nature and operation, and the form and function of the American system of government, with particular emphsis upon the overlapping spheres of the government structure, the constitutional order and the political process.

Text: To be announced.

Lectures and group discussions: Three hours a week, two semesters.

308: INTERNATIONAL LAW: AN INTRODUCTION

Prerequisite: Political Science 121 or equivalennt.

The principal features of public international law as they have developed and have been invoked in diplomatic practice, international adjudication, and national courts; the defects and weaknesses of the international legal system; trends in law and its probable lines of development. Texts: International Law: A Text - H.B. Jacobini (Dorsey Press), Basic Documents in International Law – Ian Brownlie (Oxford), and selected Des.

Ectures and group discussions: Three hours a week, two semesters.

109: COMPARATIVE CONSTITUTIONAL LAW

Frerequisite: Political Science 121 or equivalent.

A comparative analysis of constitutional systems. It focuses upon the peory and exercise of judicial review, in the context of either Canadian and American constitutional law, or European constitutional practice. It combines lectures, collateral readings, and the case method. · 1 - 5'

Text: To be announced.

Dectures and group discussions: Two hours a week, two semesters.

350: INTRODUCTION TO PUBLIC ADMINISTRATION

Prerequisite: Political Science 121 or equivalent.

A study of the structure and operation of the administrative branch of overnment — both in theory and in practice. Included will be an minimation of the evolution of the Canadian federal public administration and public service, with some attention for comparative purposes to related experience in other nations. The administrative responsibilties and powers of the modern state will be assessed, and a sampling of becent organization theories will be undertaken.

Texts: To be announced.

Bectures and group discussions. Three hours a week, two semesters.

155: POLITICAL THOUGHT TO THE FRENCH REVOLUTION

A historical treatment of the most important political ideas from the prliest writings on politics to the immediate precursors of the French Revolution. Some attention is paid to the mutual interaction of social politions and ideas.

Text: To be announced.

Lectures and group discussions: three hours a week, two semesters.

B56: MODERN POLITICAL THOUGHT

An examination of political ideas from the French Revolution era to the present, with special emphasis on Utilitarianism, Liberalism and Marxism. Text: To be announced.

Lectures and group discussions: Three hours a week, two semesters.

359: INTERNATIONAL ORGANIZATIONS

Prerequisite: Political Science 121.

A study of the structures of and the processes of co-operation and conflict within the United Nations, the European Economic Community NATO, the Commonwealth, the Warsaw Pact, CMEA, the OAS and the OAU.

Text: Selected readings will be assigned.

Lectures and group discussions: Three hours a week, two semesters.

360: THE POLITICS OF THE DEVELOPING AREAS

An examination of problems of political development in Asian and African states, in the context of their modernization processes, we special reference to factors responsible for the emergence of authorities ian governments.

Texts: The Politics of the Developing Areas – G.A. Almond and J.S. Coleman eds. (Princeton U. Press, 1960) and Political Culture and Political Development – L.W. Pye and Sidney Verba (Princeton D. Press, 1965).

Lectures and group discussions: Three hours a week, two semesters.

361: GOVERNMENT AND POLITICS IN EAST ASIA

A study of government structures and political dynamics in mainlest China, Southeast Asia and Japan, with emphasis on current trends the Chinese system.

Texts: Major Governments of Asia – G. McT. Kahin ed., 2nd edit (Cornell U. Press, 1963), Ideology and Organization in Communi-China – F. Schurman (U. of California Press, 1966) and Government and Politics of Southeast Asia – G. McT. Kahin ed., 2nd editation (Cornell U. Press, 1964).

Lectures and group discussions: Three hours a week, two semesters.

370: POLITICAL PARTIES AND VOTING BEHAVIOUR

100

An analysis of the structures and functions of individual parties and party systems, with emphasis on the United States, Canada and Brite

Lectures and group discussions: Two hours a week, two semesters.

SEMINAR IN THE HISTORY OF POLITICAL THOUGHT

intensive study of major trends in political thought, early and major, with special attention to contemporary political doctrines and cologies, their transformation in the course of history and their interrelation in the course of history and their interrelation with social political conditions.

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semions: Two hours a week, two semesters.

51: CANADIAN GOVERNMENT SEMINAR

• budy of selected aspects of Canadian government and politics, becally some of the dynamic forces which operate outside the formal institutional framework.

Stations: Two hours a week, two semesters.

52: SEMINAR IN COMPARATIVE GOVERNMENT

Enceived as a work-study group, this seminar is designed for students **Enceived** in the use of the comparative method in the analysis of **Entemporary** national political systems.

signsions: Two hours a week, two semesters.

53: INTERNATIONAL STUDIES SEMINAR

meminar on the contemporary interaction of the major powers, with becial consideration of selected world problems, tensions, trends and evelopments.

Texts and references are provided in the International Studies Research Room.

sessions: Two hours a week, two semesters.

455: SEMINAR ON CANADIAN FOREIGN POLICY

An examination of the factors shaping Canada's external policy, the bajor issues in her foreign relations, and her roles in the international mmunity. Special attention is given to Canada's participation in the inited Nations, NATO and the Commonwealth, and to her aid programmes in the developing areas. Texts and references are provided in the International Studies Research Room.

Sessions: Two hours a week, two semesters.

PSYCHOLOGY

G. Gordon S. Ahmad T. Baydar C. Hayes I. Lenzer Chairman, Assistant Profes Assistant Profes Lecture Assistant Profes

120: INTRODUCTION TO PSYCHOLOGY

Prerequisites: Sophomore standing, or permission of the department

The science of behaviour. Methods and Measurement. Physiological basis of behaviour. Maturation and development. Individual Difference and Intelligence. Personality. Sensory Processes and Perception. Learning, memory and thinking. Motivation and emotion. Social and clinical Psychology. Applications of Psychology.

Each person taking this course must act as a subject for psychologies experiments for a certain number of hours as a prerequisite for the credit. The number of hours will be announced at the beginning of the course.

Text: To be announced.

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Lectures: Three hours a week, two semesters.

203: PSYCHOLOGY OF LEARNING

Prerequisites: Psychology 120. The student is recommended to take Psychology 205 or 212 concurrently.

Classical conditioning and instrumental learning will be studied examples of the learning process. In addition, factors such reinforcement, punishment, generalization, discrimination, transfer training, extinction, short-term and long-term retention, interference all-or-none versus incremental learning and the physiological correlates of learning will be studied.

Text: J. Deese and S.H. Hulse: The Psychology of Learning (McGra-Hill).

Lectures: Two hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

204: THE PSYCHOLOGY OF SENSATION AND PERCEPTION.

Prerequisites: Psychology 120. The student is recommended to take Psychology 205 or 212 concurrently.

physical properties of stimuli, the physiological apparatus for the environment, the perceptual process for extracting relevant mation from sensory data and the interaction of the senses.

Text: The World of Perception – K. von Fieandt (Dorsey)

Example 1 Senses and Perception – G.M. Wyburn, R.W. Pickford, Hirst.

Lettures: Two hours a week, two semesters.

Emoratories: Two hours a week, two semesters.

5: EXPERIMENTAL DESIGN AND PSYCHOLOGICAL

Executives: Psychology 120. Mathematics 111. Psychology 205 'or Exchology (Mathematics) 212 are compulsory for all students wanting take 300 level Psychology courses. Students are strongly advised to the Psychology 205 or 212 in the same year as 203 or 204.

contance of Statistics in Psychology. Permutations and Combinations. bability and Probability Distributions. Binomial and normal distritions. Characteristics of distributions: skewness, kurtosis, measures bentral tendency and dispersion. Sampling and hypothesis testing. metric statistics: t, F, and chi-square tests; Analysis of Variance and variance; Correlation and Regression. Non-parametric Statistics: m-Whitney and Wilcoxon; Friedman; Spearman's and Kendall's relation coefficients.

Designing experiments in Psychology in he light of the above. Varying betors and observing changes in responses. Interpretation of results bed on experimental design and application of the relevant statistic. Imphasis in this course will be laid on applications of statistics, and pon practical analysis of results obtained in laboratory courses 203 and 204.

Text: To be announced.

Dectures and Laboratory: Three hours a week, two semesters.

212: SEE MATHEMATICS 212

303: PSYCHOLOGY OF MOTIVATION

Prerequisites: Psychology 201 (1968-69 Calendar), 203, or 204. Psychology 205 or 212.

A study of the impelling factors in behavior such as needs, drives and incentives. Behavioural and physiological components of hunger, thirst, pex, and intracranial self-stimulation.

Text: R.C. Bolles - Theory of Motivation

Additional required readings: Motivation - D. Bindra and J. Stewart (Eds.)

The Nature of Emotion – M.B. Arnold (Ed)

Lectures: Two hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

304: COMPARATIVE AND PHYSIOLOGICAL PSYCHOLOGY

Prerequisites: Psychology 201 (1968-69 Calendar), 203 or 204. Psychology 205 or 212

Physiological and Neural Mechanisms in Behaviour. Phylogenet Comparisons of Behaviour. The Cortex and its Importance in the Control of Psychological Functions. Central versus Autonomic Nervet Systems. DNA, RNA, and the genetics of behaviour. Endocrite Systems. Behavioural change through Cortical Stimulation, lesion, a chemical action. The Electro-Encephalogram. Sensory Processing Learning and Motivation considered physiologically.

Text: R.F. Thompson – Foundations of Physiological Psychologian Additional Required Readings: Readings in Physiological Psychology – T.K. Landaurer (Ed).

Lectures: 3 hours a week, two semesters.

Laboratory: 1 hour a week, two semesters.

310: SOCIAL PSYCHOLOGY

Prerequisites: Psychology 120. Psychology 205 or 212. One of Psychology 201 (1968-69 calendar), 203 or 204 or any 300 level sociology.

Membership of groups. Communication, interaction, language and culture. Values. Group norms, attitudes and roles. Leadership and social stratification. Authority and prejudice. Group behaviour as comparwith individual behaviour. Motivation and opinion change. Config-Criminal behaviour. Gambling and utility. Game theory. Psycheconomics. Animal social life. A project will be undertaken as part this course by students working individually or together.

Text: Individual in Society – Kretch, Crutchfield and Ballachet (McGraw-Hill)

Books recommended: Readings in Social Psychology – Newcon Maccoby and Hartley (Holt, Rinehart and Winston) Social Psychology – R. Brown (Free Press) **Bocial** Psychology through Experiment – G. Humphrey and M. Argyle (Methuen)

Lectures: Three hours a week, two semesters.

Projects: Preparation first semester, completion second semester.

311: INDUSTRIAL AND APPLIED PSYCHOLOGY

Prerequisites: Psychology 201 (1968-69 calendar), 203 or 204. Psychology 205 or 212.

The Individual Within the Organization. Inter-personal relations and irganizational structure. Selection, placement, training and performince. Motivation and morale. Leadership and decision-making. Psychomotor coordination in the carrying out of tasks. Cybernetics, work itudy, linear programming and critical path analysis.

Text: To be announced.

Lectures: Three hours a week, two semesters.

312: COGNITIVE PROCESSES

herequisites: Psychology 201 (1968-69 Calendar) 203 or 204. hychology 205 or 212

Symbolic processes. Problem solving, creativity, concept formation and rule learning. Choice. Logic and psycho-logic. Communication, elements of language processing and psycholinguistics. Perception and memory as determiners of the decision-making process.

Text: A.W. Staats – Learning, Language and Cognition (Holt, Rinehart and Winston)

Lectures and Laboratory: Three hours a week, two semesters.

313: ARCHITECTURAL AND ENVIRONMENTAL PSYCHOLOGY

Prerequisites: Psychology 203 or 204. Psychology 205 or 212; (or permission of the Dept.)

The functions of buildings; the role of the architect in society. The briteria for design and patterns of research; performance, comfort, timulation; curiosity, and arousal. Perception of space, personal and movement space, territoriality. Lighting; apparent brightness, gloom, bare. Acoustics; noise and stress, speech interference, distraction. Thermal environment; temperature and arousal, behavior under heat bress. Perception of the city; cognitive maps, the sonic environment, visual complexity. The street and its social functions. Stress in the brban environment; Calhoun's rats and the rat race. Text: To be announced.

Lectures: Three hours a week, two semesters.

321: HISTORICAL AND CONTEMPORARY SYSTEMS OF PSYCHOLOGY

Prerequisites: Psychology 203 or 204. Psychology 205 or 212 = permission of the Department.

Greek Psychology. Arabian and Western European development. Medval and Renaissance approaches. Early scientific influences: ideas from physics, mathematics and physiology. Nineteenth and twentieth century theories and experiments. Psychology as a natural, biological and social science. The outlook.

The basic issues: Classical and scientific Psychology. Voluntary and involuntary behavior. Respondent and Operant behavior. Choice and preference. Drives and values. Uncertainty and Information. Intelligence. Symbolic Processes and Language. Problems of measurements and evaluation. Organization and evaluation.

Text: To be announced.

Lectures: Three hours a week, two semesters.

331: CHILD PSYCHOLOGY AND ADOLESCENT DEVELOPMENT

Prerequisites; Psychology 201 (1968-69 Calendar), 203 or 204. Psychology 205 or 212, or the permission of the Department.

Research Methodology in Child Development. Theories of Behaviour and Development. Prenatal development. The Neonate. Maturation and Learning. Nature versus nurture. The Development of Intelligence and Personality. Psychological Assessment of Children. Problems of early life. Pathological versus normal development. Puberty. Changes and Problems of Adolescence.

Texts: Child Development and Personality – Mussen, Conger and Kagan (3rd edition).

Lectures: Three hours a week, two semesters.

332: CLINICAL PSYCHOLOGY

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Prerequisites: Psychology 201 (1968-69 Calendar), Psychology 203 ar 204. Psychology 205 or 212.

Mental illness and Mental health. Normal and abnormal behaviour Origin, development, symptoms and cures of certain behaviour disutNeurosis and Psychosis. Psychological and physiological factors as causes of psychological problems. Counselling, psychotherapy, tour therapy, group therapy. Mental retardation. Functions of multiple hospitals, child guidance clinics, psychotherapists and psychi-

Text: To be announced.

Les Bures and Laboratory: Three hours a week, two semesters.

B33: PSYCHOLOGY OF PERSONALITY

Perequisites: Psychology 201 (1968-69 Calendar), Psychology 203, or **Psychology 205** or 212.

Fissonality Theories of Freud, Jung, Adler, Fromm, Horney, Sullivan, Fissonality Theories of Freud, Jung, Adler, Fromm, Horney, Sullivan, Fischo-dynamic, behaviour, factor and physiological approaches to prisonality development. Projective and scale measures of personality. Normal and abnormal personality. Neurosis and psychosis.

Text: To be announced.

Lectures: Three hours a week, two semesters.

340: EDUCATIONAL AND PSYCHOLOGICAL TESTS AND MEASUREMENTS

Prerequisite: Psychology 201 (1968-69 Calendar), 203 or 204. Psychology 205 or 212.

Basic principles: Statistical sampling and testing: Psychological measurement and the construction of scales. Test construction: standardisation, validity, reliability. Types of tests in common use: intelligence, aptitude, ability, personality, educational, vocational. Special tests: language, clerical, perceptual, speed, mechanical. Uses of testing and evaluation in teaching, counselling, educational and vocational selection, diagnosis and follow-up.

Text: A. Anastasi: Psychological Testing (3rd edition) (MacMillan)

Lectures and Laboratories: Three hours a week, two semesters.

QUANTITATIVE METHODS FOR COMMERCE

121. BASIC MATHEMATICS.

Prerequisite: None; not open to students with Mathematics 110A-110B

An introduction to linear algebra and set theory. Lectures: Three hours a week, one semester - half course.

122. CALCULUS FOR BUSINESS AND ECONOMICS

Prerequisite: Quantitative Methods 121 or Mathematics 110A-110B

An introduction to the use of differential and integral calculus with emphasis on Business and Economic applications.

Lectures: Three hours a week, one semester - half course.

201: ELEMENTARY PROBABILITY AND STATISTICS FOR BUSINESS AND ECONOMICS

Prerequisite. Quantitative Methods 121 or Mathematics 110A-110B

An introduction to probability and statistics with emphasis on business and economic applications.

Lectures: Three hours a week, one semester - half course.

RELIGIOUS STUDIES

S. A. Armstrong, G. R. Hoffman, S.J. T. Macho, S.J. L. B. Miller, S.J. L. T. Murphy, S.J. T. F. Rigelhof G. W. Tait, S.J. Acting Chairman, Assistant Professor Assistant Professor Part time Lecture Assistant Professor Lecture Part time

121: THE VARIETIES OF RELIGIOUS EXPERIENCE

This course treats of human spirituality in samplings of its many formed presented to the student through the various historical and theoretical perspectives afforded by the ethical, mystical, liturgical, and theological systems of the major world religions. The course seeks to develop in the student an understanding of the religious component of human experience in both its essence and manifestations.

Staff

Lecturers and tutorials; two semesters

No prerequisites.

301: RELIGIOUS ROOTS OF WESTERN CULTURE

A study of some key religious ideas which arose among the Hebrewa the Greeks or the Church of New Testament times; and how they have influenced Western Culture.

302: ATHEISTIC HUMANISM

A study of the humanism of the Marxist and of the French extentialists, particularly their thesis, that only an atheism can be a true formanism.

Ectures and discussions; two semesters.

303: MYTH AND HISTORY: THE PROBLEM OF INTERPRETING HUMAN EXISTENCE

The tragedy of human life; absurdity and meaning; attempts at meaning; the origin and nature of myth, historicism, and salvation history; attempts to work out a theology of history from scriptures with a stress on promise and fulfillment; the nature of Christain hope.

Armstrong

Lectures and discussions; two semesters.

304: THE DEVELOPMENT OF THE DOGMAS REGARDING THE WORD INCARNATE

After a careful examination of New Testament teaching as the basis for the subsequent development, the Christology of the more important early Fathers and ecclesiastical writers will be studied. Next the Arian controversy and two Ecumenical Councils dealing with it, Nicaea I, and Constantinople, will be examined. Finally the great Christological controversies and Councils, particularly of the fifth century, will be studied, leading to a clear understanding of the Christological formulae that emerged from these.

Hoffman

Texts: The Bible; Philip Hughes, A History of the Church.

Lectures and discussions; two semesters.

305: INTRODUCTION TO THE BIBLE

A study of the history and literary form of various books in the Bible.

Lectures and discussions; two semesters

307: THE MEASURE OF MAN

There are many distinct modes of human experience. Each mode is capable of providing a unique measure of our humanity. Each assigns central importance to one among many dimensions of our lives. No single perspective on man is adequate for dealing with the complexity of life. The theologian's interest is in the "depth" dimension of human existence. However, we seriously misunderstand ourselves if we ignore the insight to be had from other perspectives. Consequently, we shall study the relationship of the depth dimension to a number of measured of man such as those offered by science, history, art, and myth.

Armstrong

Texts: George Morgan, The Human Predicament, E. Cassirer, An Essen on Man.

Lectures and discussions; two semesters.

309: THE PRE-REFORMATION CHURCH

A detailed historical study of the various problems, political, intellectual, and religious, which had their origin during the period of early mediaeval Christendom, reached their climax towards the late middle ages, and resulted in the reformation.

Hoffmann

Text: Philip Hughes, A History of the Church, Vol. 3

(Cross listed as History 309)

***310: THE CHRISTAIN UNDERSTANDING OF MAN**

A study of who man is from the point of view of the Bible, Christal tradition and modern insights.

311: DEVELOPMENT OF CHRISTAIN PERSONALITY

A study of the notion of person and personal relationships; of the place of freedom in the development of the Christain person; of the transforming activating reality of grace; of the role of the Sacraments of Initiation in Christian transformation.

Murphy

Lectures and discussions: two semesters

*312: TEILHARD DE CHARDIN AND THE FUTURE OF MAN

A study of Teilhard's vision of cosmic redemption as a response to the needs and problems of contemporary man.

*313: MORAL THEOLOGY

A study of recent attempts to reformulate moral theology; and of some moral problems of the day.

Lectures and discussions. two semesters.

***314: CHURCH AS COMMUNITY**

A theological reflection on the literary expression of man's experience of community; on sociological and psychological insights into the particular and dynamics of human community.

*315: THE CHRISTIAN IN SOCIETY

A study of some of the problems which emerge when we recognize that we live at the beginning of the "post-constantinian" age; of some contemporary social problems and possible Christian responses and responsibility.

316: CHRISTIAN SOCIAL ETHICS

Combining the different perspectives offered by Theology, Sociology, and Ethics, this course will be concerned with developing a comprehensive social ethic for modern society. Topics discussed in seminars will be the ethic of the Old and new Testaments scriptures, the development of social doctrines in the history of Christian thought, the rise of secularization and pluralization in modern society, the relationship of ethics and ideology, and the relation of social ethics to social policy. Some attention will be given to whether Christian social ethics can be revoluntionary.

Miller

Lectues and discussions: two semesters.

* 320: CONTEMPORARY PROTESTANT THOUGHT

An exploration of the central insights of some of the major Protestant thinkers of our time. Special attention will be given to determining the usefullness of these insights for our understanding of ourselves and the world in which we live. The major work of the course will be the discussion, both in the classroom and in written form, of selected readings. No previous courses in theology are required.

***321: RELIGION IN A SCIENTIFIC AGE**

An exploration of the nature, history, powers, and limitations of science with attention of some of its wide-ranging effects on our understanding of ourselves and the world. We will ask how the role of science in our lives may aid, hinder, or be irrelevant to religious concerns. There are no prerequisites either in the sciences or in theology.

***322: MEDIAEVEL AND MODERN JEWISH HISTORY**

Historical survey of the Jewish people with emphasis on the social, religious and cultural aspects of Jewry and its contribution to world civilization.

Levine

Lectures and discussions; two semesters (Cross-listed as History 213)

323: THE TRACTARIANS

A course which deals with the part played by Pusey, Keble, Newman, Froude and R.I. Wilberforce in nineteenth century religious thought and some of the effects of their thinking on Ecumenism.

Tait

Lectures and discussions; two semesters.

325: RELIGIOUS CELEBRATION, HUMAN EXISTENCE, AND THE BOUNDARIES OF LIFE.

Festivals as moments of intersection and intense reciprocity between man and the sacred; as times of renewal and restoration; and as season markers in the segmentation of the year's calendar. The fundamental question or the attitude of our culture towards the festival. With possibilities for field-work in Maritime folkways.

Lectures and discussions; two semesters (Cross-listed as Anthropologi 325)

326: RELIGIONS OF INDIA

A survey to the religious traditions of India from the Indus Valley civilization to the present. This course will concentrate on the foundations and development of the Hindu, Buddhist, and Jan traditions in India and will consider their characteristic doctrines some detail. Attention will also be given to the general methodological problems in the study of Oriental religions.

Rigelhof

Texts: A.L. Bashman – The Wonder that Was India M. Hiriyanna – The Esentials of Indian Philosophy Selected readings of Indian religious literature in translation.

No prerequisites

Lectures and discussions; two semesters (Cross-listed as Anthropoles 326)

330: STUDIES IN EIGHTEENTH CENTURY SOCIAL AND RELIGOIUS THOUGHT

study of the intellectual foundations of political and religious **beralism.** This course concentrates on the social and religious philo**behi**es of the Enlightenment and their influence on the contemporary **bestern** civilization. Emphasis is placed upon reading, analyzing, and **berpreting** selected writings of the period.

Rigelhof

Texts: E.Cassirer, *The Philosophy of the Enlightenment* Selected readings in Newton, Locke, Descartes, Voltair, Diderot, Rosseau, Hume, Gibbon, Herder, Kant, Franklin, etc.

Prerequisites

Lectures and discussions; two semesters (Cross-listed as History 330)

Not offered 1970-71

SOCIOLOGY

The Sociology Major consists of at least 5 courses from Sociology, and 2 from allied fields (Anthropology, Economics, History, Philosophy, Political Science, Psychology). The Major must include Introductory Sociology, Research Methods, Sociological Theory, and any two other sociologies – Prerequisite for all courses: Introductory Sociology (this can be waived with the permission of the instructor of the course involved.) Students who wish only ONE elective from sociology must take Introductory or Modern Sociology. All courses are full courses.

Lectures are three hours a week, two semesters. All texts to be announced.

121: INTRODUCTORY SOCIOLOGY

An introductory study of sociological perspectives, basic sociological concepts, man's interaction and organization in society, particularly in modern Canadian society, and the relationship between sociological theory and research; analysis of major social institutions (familial, religious, educational, economical, and political), and of major trends in society (urbanization, industrialization, bureaucratization, and the technological revolution).

200: RESEARCH METHODS

An examination of the basic methods and techniques employed at various stages in social research. Topics to be discussed include selecting a research problem, research designs, methods of Data collection, content analysis and problems of measurement. Practical experience will be provided by means of a research project.

201: MASS COMMUNICATIONS

An analysis of the role of mass communications in modern society with particular emphasis on communication media: their structure and control, content, audience, and effects. Theories of mass communication and research data concerning their impact upon the individual in society.

202: POPULATION STUDIES (DEMOGRAPHY)

Determinants and consequences of population, size, growth, rates, composition, distribuiton, fertility, mortality, and immigration.

204: SOCIAL INSTITUTIONS

The development and changes of various institutions characteristic of modern societies; their origins, the contingencies to which they are subject, and their interrelations.

206: SOCIOLOGY OF PROFESSIONS

A sociological analysis of various professions such as: law, medicine, social work, teaching, nursing.

207: SOCIOLOGICAL THEORY

A critical examination of sociological theory with emphasis on difference and congruance in the writings of European and American scholars from Saint-Simon and Comte to Parsons and other contemporary theorists. Analysis of major sociological concepts to discover conceptual links between past usuages and meanings and current trend and realities. Relationship of specific theories and their ideas to modern times.

208: SOCIAL STATISTICS

The course will address itself to the following problems: variables and graphs, frequency distributions, the mean, median, mode and other measures of central tendency. The standard deviation correlation theory, elementary probability theory, elementary sampling theory, multiple and partial correlation. The Chi-Square tests, etc. (This course is strongly recommended for students majoring in Sociology who intend to take graduate work.

SOCIAL PROBLEMS INVOLVING DISORGANIZATION AND

tive approach to establish proper perspectives for adjustment of anal, family, industrial, religious, social and various other problems as addictions, health, handicaps; vocational difficulties; emotional trols and suicide; industrial hazards, community problems, national mems, minority groups, war, population, prejudice and discrimition; family problems.

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RB: CRIMINOLOGY AND PENOLOGY

philosophies of causation and prevention of crime; types of binal behavior; organized crime and vice. Agencies of apprehension, custody and after-care of prisoners. World trends in penological bosophy.

IC4: COMPARATIVE SOCIAL SYSTEMS

course is designed to analyse systematically the major social inizations such as: economic structures, kinship structures, political octures, work structures, recreational structure, of a variety of interently organized social systems. The focus of the course is to impare sociologically the structure and functioning of large social interest. This is presented from a sociological perspective.

16: (EDUCATION 407) SOCIOLOGY OF EDUCATION

The institutional structure of education and the social roles of inisitrators, teachers, and students.

308: URBAN SOCIOLOGY

These aspects of urbanism and urbanization will be the main theme of the course: Human ecology, Urban structure and function, the Nature of the City, Urbanization as a process, the Basic Urban Institutions, Theories of Land Use and Growth, Community and Power Structure.

ID: (PHILOSOPHY 402) PHILOSOPHY OF THE SOCIAL SCIENCES

313: SOCIOLOGY OF KINSHIP AND FAMILY

Sex roles and mate selection; husband-wife, parent-child, and peer relationships; extended kinship realtionships; cross culture analysis of the family and changing family patterns. This is presented from a reciological perspective.

316: ORGANIZATIONAL THEORY AND BUREAUCRACY

An examination of the formal structure and bureaucratic organization of systems of modern society, deals with organizational theory relation to occupational, professional, industrial, and work situations

317: SOCIOLOGY OF RELIGION

Analysis of the nature of the sociological study of religion and of its theoretical development. The relationship between religion and socie Applications of the major theoretical concepts to the contemporary religious situation.

318: SOCIAL CHANGE

A study of the sources, patterns and consequences of social change. The views of classical and modern theorists will be evaluated in relation to patterns of change exhibited at the goup, community, societal and culutral levels. This course will analyze modernization, industrial ation, nationalism, and urbanization.

319: SOCIALIZATION

An analysis of the mechanisms by which individuals acquire from birth to death, the necessary attributes, values and skills for adequifunctioning in society. A major concern of the course will be to analysis the processes which operate to cause both conformity and deviant within a particular culture and social system. The course will also include a sociological analysis of some of the main socializing agent society such as: mass media, schools, family, reference groups, per groups, etc.

320: ETHNIC AND MINORITY GROUPS

The concept of race and ethnicity; the Problems of Minority groups ethnic differentiation and assimilation in Canadian and America Societies; Segregation, Inequality and Race Conflict. Selected Canadia and American Minorities. Selected World Minority Groups; Race and collective behaviour.

321: CANADIAN SOCIETY

An examination of the institutional framework and value basis Canadian Society. Topics to be discussed include ethnic composition class structure, economic institutions, political institutions and industalization. A look will also be taken at the broad spectrum of sociproblems confronting Canada, both externally and internally.

POLITICAL SOCIOLOGY

seminar will examine the connections between large structural pages in societies (notably industrialization and urbanization) and the mearance of collective violence, protest and revolution. The course deal especially with European experience, although there will be party of opportunity to use materials from other parts of the world.

The chief historical issue taken up will be the extent to which contries undergoing urbanization and industrialization have experidiced a common sequence of changes in the pattern of protest and collective violence. The chief theoretical issue will be relative adequacy of formulations of social change in terms of disruption and re-establishbent of equilibrium, and formulations in terms of enduring conflicts of terest. The chief methodological issue will be the choice (a) case budies and natural histories, (b) comparative historical analyses, and pontemporary cross-section comparisons, as means of testing hypothetireal relationships between large structural changes and the appearance of bollective violence, protest and revolution.

324: SOCIAL STRATIFICATION

An analysis of the main features of social inequality in modern industrial societies. Analysis of the distribuiton of power and wealth, the existence of 'power elites' or 'governing classes', comparative community power structures, the institutionalisation of class conflict, problems of social mobility, the political expression of class and status groups, will all be dealt with. Also, a critical examination of varying sociological perspectives on stratification, both classical (Marx, Weber) and contemporary (Functionalist and Conflict theorists).

330: MODERN SOCIOLOGY

This course surveys the basic content areas of Sociology. Current sociological knowledge is related to major issues and problems of the day. The following content areas in Sociology are examined: Social Stratification, Social Central Social Conflict, Social Deviation. Social Institutions which comprise modern society are examined in terms of their structure and functioning; these include: Family, Religion, Education, Polity, Economy, Mass Communication, and Medicine.

SPANISH

Annabelle Edwards Thomas Macho, S.J. Lecturer Associate Professor

100 (120): INTRODUCTION TO THE SPANISH LANGUAGE

Concentrated study of basic structures with particular emphasis on ceasing aspects.

Text: To be announced.

Lectures: Three hours a week, two semesters.

Laboratory: Three ½ hours (periods) a week.

200: ELEMENTARY SPANISH

Prerequisite: Spanish 102 or Spanish matriculation

Continuation of work begun in Spanish 100 (120) with particle emphasis on conservation and reading with understanding. System building of vocabulary through study of Spanish civilization.

Text: To be announced.

Lectures: Three hours a week, two semesters.

Laboratory: Three ½ hours (periods) a week.

302: COMPLETION OF THE AUDIO-LINGUAL PROGRAM

Prerequisite: Spanish 200

Particular emphasis on conversation and writing using a style and vocabulary appropriate to the material or the occasion. Building a vocabulary through study of cultural materials and especially anthropological concept of culture.

Texts: Audio Lingual Materials: Level Three

Lectures: Three hours a week, two semesters.

Laboratory: Three ½ hour (periods) a week.

303: SPANISH DRAMA

An interpretation of the Spanish Drama from the Middle Ages to our days, with particular emphasis on modern Spanish drama and an peculiar characteristics.

Text: To be announced.

Lectures: Three hours a week, two semesters.

304: THE GENERATION OF 1898

The Spanish culture before and after this generation. Paticular employed on Baroja, Unamuno, and Ortega. *

To be announced.

Three hours a week, two semesters.

DON QUIJOTE

mtes and his time.

to be announced.

mers: Two hours a week, and one hour seminar, two semesters.

PROSE AND STYLISTICS

requisite: Sound knowledge of Spanish grammar.

Students learn to "feel" the most appropriate expression in relicular circumstances. Class time involves mainly the correction of relicises prepared at home, concentrating on choice of words, imagery, redes of meaning etc.

A good modern Spanish dictionary is essential, e.g. Cassell's or entos. NO POCKET DICTIONARIES.

Leftures: One hour weekly. Spanish – English One hour weekly. English – Spanish.

Board of Governors

Chancellor

Most Reverend James M. Hayes, J.C.D., D.D. Archbishop, Archdiocese of Halifax

Members Ex Officio

Most Reverend James M. Hayes, J.C.D., D.D. Chancellor, Chairman of the Board

Right Reverend Colin Campbell, V.G., D.P., P.P., M.S.W. Vice-Chancellor of the University

Dr. Henry J. Labelle, S.J. President of the University

Dr. M.W. Burke-Gaffney, S.J. Secretary of the Board

Mr. Edmund Morris, B.A. Vice-President, Finance and Development, of the University

Members Appointed

Harold G. Beazley, B. Comm., R.I.A.
Keith C. Bishop, B.E.
William A. Bridgeo, B.Sc., Ph.D.
O. Paul Cormier, B.Comm., M.B.A., C.A.
Richard A. Donahoe, Q.C., B.A., LL.B., K.S.G.
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Austin E. Hayes, B.Comm.
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Maurice E. Keating, B.A., M.A., LL.B., LL.D.
John E. Lynch, B.A., M.A.

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D. Mader, B.Sc., B.E.
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Merend A.M. O'Driscoll, B.A.
Peter J. OHearn, Q.C., B.A., LL.B., K.S.G.
Sidney C. Oland, V.D., LL.D.
Kyan, E.D., B.Sc., B.E.
Stanbury
Stockall
Waughan, B.Sc., B.E.

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Belle, B.A., M.A., Ph.D., Chairman
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Tune 1970

Boor-Tylingo, Les.L., Des.L. Flynn, B.A., M.A. Bonahan, M.A., Ph.D., M.S.L. Slewart, S.J., B.A., S.T.L., Ph.L.

Ta June 1971

W. Burke-Gaffney, S.J., B.A., B.E., Ph.D., D.Eng. Dalton, B.A., M.A., Ph.D. Daryes, B.Sc., M.Sc., Ph.D. Darty, B.Sc., M.Sc., M.A., D.Sc. To June 1972 O. P. Cormier, B.Comm., M.B.A., C.A. G. Gordon, B.Sc., Ph.D. P. Kerans, S.J., B.A., M.A., S.T.L., D.es Sc. Rel. U. Merdsoy, B.Sc., M.Sc.

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ADMINISTRATIVE OFFICES

Athletic

100

Faculty Advisor Director of Athletics J.J. Hennessey, S.J., B.A., M.A. R.G. Hayes

K. Fredrick, B.S.

Assistant Director of Athletics and Basketball Coach

L.K. Goodwin, B.Ed., M.Ed. 172

Manager of Winter Arena and Hockey Coach Football Coach

Audio-Visual Centre

Director Supervisor

Bookstore

Manager

Computer Centre

Director Analyst Programmer

Finance and Development

Vice-President, Finance and Development Administrative Assistant Treasurer Comptroller

Chief Accountant Pruchasing Agent Manager of Printing Centre Development Office Assistant

Library

Librarian Head of Technical Services Assistant Head of Technical Services Head of Public Services Assistant to Head of Public Services Head, Order Department

Physical Plant

Director, Personnel and Physical Services Physical Plant Administrator R.J. Boucher A.D. Keith, B.A., B.P.E., B.Ed.

A.T. Sabean, C.D., B.A., B.Sc., M.Sc. L.A. Lafford

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Reverend Bernard J.F. Lonergan, S.J. Systematic Theology B.A., London University; S.T.D., Gregorian University Reverend J. Elliott MacGuigan, S.J. Canon Law B.A. and M.A., Boston College; S.T.L., Milltown Park; J.C.L., Gregorian University; J.C.D., Ottawa University

Reverend Sean McEvenue, S.J. Sacred Scripture B.A., University of Montreal; M.A., Saint Mary's University; L.Ph. and S.T.L., Gregorian University; L.S.S., Pontifical Biblical Institute

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Reverend Colin Maloney, S.J. Dogmatic Theology B.A., Loyola College; M.A. (Phil.), Toronto University; L.Ph., l'Immaculee-Conception; S.T.L., University of Innsbruck; S.T.D., Gregorian University

Reverend Attila Mikloshazy, S.J. Systematic Theology and Liturgy B.A., Budapest; L.Ph., Pullach; M.A., Saint Mary's University; S.T.L., l'Immaculee-Conception; S.T.D., Gregorian University

Reverend Brian Peckham, S.J. Sacred Scripture B.A., Saint Mary's University; M.A. (Phil.), University of Toronto; Ph.D., Harvard; S.T.L., Fourviere

Reverend David W. Stanley, S.J. Sacred Scripture B.A., Loyola College; S.T.L., St. Louis University; S.S.D., Pontifical Biblical Institute

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Convocation

MAY 12, 1969

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G	overnor-General's MedalWing Tak Ng
	University Gold Medals:
	Arts
	Science
	Commerce
	Donated by Mr. and Mrs. J.M. Inglis in memory of their son, Delisle Inglis
¢	Education

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BACHELOR OF ARTS

Allen, Keith Charles	.Dartmouth, Nova Scotia
Anderson, Norman M. Anderson	Toronto, Ontario
Armstrong, Robert Murray	.Dartmouth, Nova Scotia
Baglole, James Albert	
Barnes, Ralph James	
Barry, Reid David	
Beddis, Eric Munro	Willowdale, Ontario
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Boyd, Frank Stanley	
Brown, William S.	
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Callaghan, John Hugh	Halifax, Nova Scotia
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China, Carlo B.	
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Conrad, Helen Agnes	Halifax, Nova Scotia
Cormier, Wayne William Joseph	
Dinneen, William FrancisC	helmsford, Massachusetts
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Dudley, John William	Colborne, Ontario
Edgar, Wayne L.	
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Gallagher, Michael Francis	. Newport, Rhode Island
Garner, Frederick Francis	
Gillis, Ronnay Angus	
Gougeon, Leonard Girard (Cum Laude)	
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Hackett, Donald Richard	
Hartigan, Francis Patrick	Halifax, Nova Scotia
Hennebury, J. Aidan	
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Hughson, Errol William	
Johnston, Terrence	
Jones, Andrew Jordon (Cum Laude)	
Julien, Richard Alban	
Landry, Robert Louis Yarmo	outh County, Nova Scotia
Larkin, Raymond Frederick (Magna Cum Laud	le) .Halifax, Nova Scotia
Legere, Ross Peter (Cum Laude)	Halifax, Nova Scotia

Liningston Inget Claim
Livingston, Janet Claire
Longard, Gary Robert
Lopes, Blair Ferguson Robert
MacAdam, Barbara Ann Patricia Mary Halifax, Nova Scotia
MacDonald, Alvin Joseph Sydney, Nova Scotia
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Miklos, Larry David
Mills, John S Essex Falls, New Jersey
Montague, Terrence R
Morley, Richard
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Murray, John Lewis
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Scaravelli, Lawrence William
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Butcher, David A					•			•				ł	Ialifax	, Nova	Scotia

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Miller, Ross Willard Halifax County, Nova Scotia
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Hamilton, Kenneth George Halifax, Nova Scotia
Leahey, Edward William Moncton, New Brunswick
MacDonald, David Leo Armdale, Nova Scotia
Matthews, James Robert (with distinction) Cooksville, Ontario
Navi, Faramarz Tehran, Iran
Owen, John Henry Dartmouth, Nova Scotia
Phelan, Patrick William Rockingham, Nova Scotia
Upton, J. Gerard

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Bowers, Neil Patrick, B.A.	Spryfield, Nova Scotia
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MacDonald, John Alexander, B.A Dartmouth, Nova Scotia
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MacLean, Vincent Jemes, B.A
Mahar, Gerald Joseph Anthony, B.Comm Halifax, Nova Scotia
Martin, Peter John, B.A
Maxwell, Nancy (Giroux), B.Sc
O'Neill, Margaret Mary, B.A. (Cum Laude) Halifax, Nova Scotia
Orr, David Owen, B.A
Pond, Thelma Agnes, B.A
I Uliu, Ineillia Aglies, D.A.

Puma, Paul Alfred, B.Comm.	Toronto, Ontario
Purcell, Dennis P., B.A.	Beaverbank, Nova Scotia
Regan, Frank M. B.A.	West Roxbury, Mass.
Romo, Deanna, B.A.	Halifax, Nova Scotia
Ryan, Bernard Michael, B.A.	Halifax, Nova Scotia
Scott, Joseph Vincent, B.A.	Halifax, Nova Scotia
Sheehan, Hazel MacLeod Hefler, B.A.	Dartmouth, Nova Scotia
Simms, Jeremy Joseph, B.A.	Halifax, Nova Scotia
Wamback, Arthur Louis, B.A. (Cum Laude) .	. Yarmouth, Nova Scotia
Wamback, Arthur Louis, B.A. (Cum Laude) .	. Yarmouth, Nova Scotia
White, Douglas Roy, B.A.	Souris, P.E.I.
Woods, Robert Warren, B.A.	Halifax, Nova Scotia

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Doiron, Peter, B.A Halifax, Nova Scotia
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O'Neil, Maureen, B.A Halifax, Nova Scotia
Theriault, Etienne, B.A Ste. Anne, New Brunswick
Vickers, Paula, B.A Dartmouth, Nova Scotia

MASTER OF ARTS IN EDUCATION

MacLean, Richard H. B.A., B.Ed.				•			Vancouver, B.C.
Morse, Stuart L., B.Ed.						•	Fareham Hants, England
Wong, S.J., John-Baptist, A.B., M.A		•	•		•	•	Halifax, Nova Scotia

MASTER OF ARTS IN HISTORY

MacLean, John Alton, B.Sc. Halifax, Nova Scotia

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Stephen William Anderson Herring Cove, Nova Scotia
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Gordon Philip Bartlett Fairview, Nova Scotia
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David William Ferguson Bridgewater, Nova Scotia
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Ronald Christopher Gale Cornerbrook, Newfoundland
Patrick Glendon Giddings Montague, P.E.I.
Margaret Janice Gillen Armdale, Nova Scotia
Grant Mansfield Josey Lower Sackville, Nova Scotia
Wayne Louis Keddy King's County, Nova Scotia
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Eugene Charles MacNeil Fairview, Nova Scotia
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Sister Pauline Martin, R.S.C.J
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Dennis Lawrence O'Leary
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Scott William Pushie
David A. Steves
David A. Steves
Mary Evelyn Ternan
mary Everyn Tennan

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Lloyd Joseph LeBlanc Digby County, Nova Scotia
John Colin MacLellan Dartmouth, Nova Scotia
Faramarz Navi Tehran, Iran
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Lionel Robert Thorpe New Ross, Nova Scotia
Garry F. Tremblay Hamilton, Ontario
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Bernard Leroy O'Brien Halifax, Nova Scotia
J. Vincent Purcell Purcell's Cove, Nova Scotia

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William Louis Ryan	Purcell's Cove, Nova Scotia
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Wayne Arthur Simms	Halifax, Nova Scotia
Robert William Thrope	Halifax, Nova Scotia
M. Isabelle Wilcox	Halifax, Nova Scotia

DIPLOMA IN ENGINEERING

William Gerald Boutilier				•							Bedford, Nova Scotia
Desire Joseph Doucette											Weymouth, Nova Scotia
James Mason Doyle											. St. Catherines, Ontario
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Vera Bernice (McCarthy) Stone, B.A.	Halifax, Nova Scotia
Suresh C. Paliwal, B.A., M.A.	

MASTER OF ARTS (EDUCATION)

William Joseph Gorman, B.A., B.Ed., Halifax, Nova Scotia Colleen Claire Williams, B.Sc., B.Ed. Dartmouth, Nova Scotia

