

SENATE

SEPTEMBER 11, 2001

The regular meeting of Senate was held on Tuesday, September 11, 2001, at 4:00 p.m. in Room E5004.

1. PRESENT

The President, Dr. E. Simpson, Dr. C. Loomis, Professor A. Fowler, Acting Dean J. Black, Dean W. Blake, Dean B. Burnaby, Mr. G. Collins, Dr. C. Higgs, Dean G. Kealey, Dean R. Lucas, Dr. C. Orchard, Mr. L. O'Reilly, Dr. M. Haddara (for Dean R. Seshadri), Dr. T. Gordon, Ms. Doreen Whalen, Dr. R. Adamec, Dr. G. Bassler, Professor M. Coyne, Dr. J. deBruyn, Mr. C. Dennis, Dr. D. Goldstein, Dr. R. Gosine, Professor M. Hackett, Dr. M. Kara, Professor K. Knowles, Ms. K. Lippold, Dr. D. McKay, Dr. J. McLean, Dr. M. Mulligan, Dr. D. Neville, Dr. H. Pike, Ms. D. Rehner, Dr. D. Rideout, Dr. G. Sabin, Dr. M. Skipton, Dr. D. Thompson, Dr. D. Treslan, Dr. J. Usher, Professor D. Walsh, Dr. B. Watson, Ms. B. Kitchen, Mr. K. Wiseman, Mr. J. Clements, Mr. A. Kennedy.

The President opened the meeting by welcoming Senators back for the first meeting of Senate for the Fall Semester. He extended a special welcome to Dr. James Black, recently appointed Acting Dean of Arts and Ms. Doreen Whalen, recently appointed Interim Director, Division of Lifelong Learning, and to the following newly elected and re-elected Senators:

Dr. Michael Skipton, Business Administration

Dr. Glenn Clark, Education

Dr. Dennis Treslan, Education

Dr. David Thompson, Humanities

Professor Donna Walsh, Humanities

Mr. Cyr Couturier, Marine Institute

Mr. Edward Durnford, Marine Institute

Ms. Deborah Rehner, Marine Institute

Mr. John Tucker, Marine Institute

Dr. Doreen Neville, Medicine

Professor Margaret Hackett, Nursing

Dr. Dennis Kimberley, Social Work

Dr. Holly Pike, Sir Wilfred Grenfell College

Ms. Brenda Kitchen, Vice-President (Academic), Graduate Students' Union

The President noted this particular day will be remembered as a truly tragic one because of the events which are currently being played out in the United States.

2. APOLOGIES FOR ABSENCE

Apologies were received from Mr. R. Ellis, Dr. V. Gadag, Dr. L. Hensman, Professor V. Kuester, Dr. P. Sinclair.

3. MINUTES

The Minutes of the special and regular meetings held on May 8, 2001 were taken as read and confirmed.

REPORT OF THE EXECUTIVE COMMITTEE OF SENATE

It was agreed by separate motion where necessary, that the report of the Executive Committee be approved as follows:

4. Report of the Senate Committee on Undergraduate Studies

4.1 Department of Folklore

Page 164, 2001–2002 Calendar, amend Folklore 3601 – 3620 to read as follows:

"3601 – 3620, excluding 3606 and 3618. Special Topic in Folklore"

Following entry for Folklore 3606, insert the following:

"3618. Jazz and Blues: The Roots of Popular Music (Same as Music 3018). An overview of blues and jazz as traditional musical forms. Lectures and listening will illustrate the development of regional music cultures and generic styles. To better understand the shift of blues and jazz from regional to global performance contexts, the course will examine the effects of changing transmissional media, from predominantly sensory media through contemporary media technologies. A term paper concerning musical style will entail library research and aural analysis."

Page 163, following the heading Major in Folklore amend regulation d) to read as follows:

"d) Six credit hours from Group C – Topics: not more than three of which can be taken from courses at the 1000 level: 1050, 1060, 3460, 3618, 3800..."

4.2 Minor in European Studies

A memorandum dated 30 April 2001, was received from the Faculty Council of Arts submitting a proposal for a Minor Programme in European Studies.

During the ensuing discussion of this item of business, Dr. Adamec expressed concern whether the programme will prove to be revenue positive and suggested that if the programme is approved it might be prudent to conduct a review in one year to evaluate its success.

Dr. Simpson responded that while it will take two to three years for the programme to reach its full potential as envisaged, it may be possible at the end of one year to clearly see the direction to be financially prudent, and he would be willing to provide a report on the new Harlow experience at the end of the first year.

It was moved by Professor Walsh, seconded by Dr. Black and carried, that the Minor in European Studies be approved as follows:

Page 163, 2001–2002 Calendar, insert European Studies between the sections for English and Folklore as follows:

"EUROPEAN STUDIES

MINOR IN EUROPEAN STUDIES

The Minor in European Studies is a multi-disciplinary programme offered to candidates for the general and honours degrees of Bachelor of Arts, Bachelor of Business Administration, Bachelor of Commerce (Co-operative) and Bachelor of Science. The Minor in European Studies requires the completion of at least nine credit hours at the Harlow Campus or as part of an approved exchange programme with a European university. The Minor is an alternative to a Minor offered by a single department and satisfies degree requirements for a Minor.

The objective of the programme is to explore contemporary Europe through the study of its politics, society, history and culture. The programme consists of a series of inter-related courses in different disciplines focusing on present-day Europe and its recent history (19th and 20th centuries), and is coordinated by a Programme Coordinator in consultation with the Director of the Harlow Campus.

REGULATIONS

Students who minor in European Studies shall complete a minimum of 24 credit hours including:

- a) European Studies 2000
- b) History 2310
- c) one of French 3650, German 2901, Russian 2900, Russian 2901, Spanish 3400
- d) one of European Studies 3000–3030 (Special Topics in European Studies)
- e) Twelve credit hours in courses from the European Studies Course List below including at least nine credit hours completed at the

Harlow Campus or as part of an approved exchange programme with a European university

No more than twelve credit hours from any one discipline shall be applied to the Minor in European Studies. Students should consult the European Studies Minor Programme Coordinator on the availability of courses at Harlow (or in exchange programmes), and at the St. John's and Sir Wilfred Grenfell College campuses.

COURSE LIST

Courses marked with an asterisk normally may be taken only after completion of at least one prerequisite at the 2000 level or beyond. Other courses, especially at the 3000 level and above, are normally taken after one or more introductory courses in the discipline are completed.

English 2001 Major. Writers from 1800

English (SWGC) 2007. Literary Survey III (1837 to the present)

English 2211. The English Novel from 1800–1900

English 2212. The Twentieth-Century British Novel

*English 3022–097. Drama 1580–1642

English 3710–3729. Special Topics in English (available only as part of the Harlow Campus Semester)

*English 4300–097. Modern Drama I

*English 4302–097. Contemporary British Drama

Folklore 3601–097. Special Topics in Folklore: English Material Culture

Folklore 3613–097. Special Topics in Folklore: English Museums and Historic Sites

Folklore 3710–3729. Special Topics in Folklore (available only as part of the Harlow Campus Semester)

*French 3650. A Survey of the Civilization of France

Geography 3400. Lands and Seas of the Northern North Atlantic

*Geography 3410. Regional Geography of Europe

Geography 3710–3729. Special Topics in Geography (available only as part of the Harlow Campus Semester)

Geography 3900–097. Heritage Conservation and Cultural Resources Management

Geography 3990–097. The Making of the English Town

German 2901. Introduction to German Culture II

*History 3360. Revolutionary and Soviet Russia.

*History 3380. German History II, Since the Mid–Nineteenth Century.

*History 3460. British History from 1714

*History/Economics 3610. International Economic History of the 19th and 20th Centuries.

History 3710–3729. Special Topics in History (available only as part of the Harlow Campus Semester)

Philosophy 3880. Post–Idealist Thought

Philosophy 3920. Phenomenology

Philosophy 3940. Existentialism

*Political Science 3291. The European Union

*Political Science 3300. European Politics

*Political Science 3320. Comparative Politics: State and Politics in the USSR and the Commonwealth of Independent States

*Political Science 3330. Eastern European Politics

Russian 2900. Russian Culture I

Russian 2901. Russian Culture II

*Sociology/Anthropology 3242. European Societies

*Spanish 3400. Spanish Civilization

*Visual Arts 3702 (SWGC). Art and Architecture: Historical Contexts and Modern Users

*Visual Arts 4701 (SWGC). Art History: Special Topics: Art and Architecture in Britain I

*Visual Arts 4702 (SWGC). Art History: Special Topics: Art and Architecture in Britain II

NOTES:

1) Students should consult the European Studies Programme Coordinator on the applicability of special topics and other courses not listed above to the European Studies Minor programme. In particular, courses taught at the Harlow Campus by other academic units and dealing with the broad themes of the programme may be applicable to the Minor in European Studies. Such courses may be offered by Sir Wilfred Grenfell College, the Faculty of Business Administration, the Faculty of Science, the School of Music, and other faculties and schools.

2) The suffix -097 indicates course sections offered at the Harlow Campus by various academic units.

3) Courses in the series 3710 to 3729 indicate courses which form part of programmes offered by the Faculty of Arts only at the Harlow Campus.

4) Up to six credit hours in the discipline of a student's major programmes may count towards the minor, but these shall be in addition to the minimum course requirements for the major.

5) Normal prerequisites, policies on the waiver of prerequisites and credit restrictions in the respective departments will apply.

European Studies 2000. Europe in the 20th Century. Social, economic, and political changes from 1918 to the present including the collapse of monarchies, the emergence of mass politics, fascism and totalitarianism, World War II, postwar reconstruction and the welfare state, European integration, and Europe in the postwar economic and political order. The course will examine Britain, France, Germany, and Italy, and particularly the European Union. Special attention will be paid to the demise of class politics and the impact of postwar affluence.

European Studies 3000–3030. Special Topics in European Studies. Each course in this series will be a reflection on modern Europe through the study of one or more of the following: film, comparative literature, art, architecture, music, etc.

4.3 Department of English Language and Literature

Page 160, 2001–2002 Calendar, following English 3003, insert the following:

"3006. Women Writers in the Middle Ages. (Same as Medieval Studies 3006 and Women's Studies 3001). The course will study selections from the considerable corpus of women's writings in the Medieval period, as well as issues which affected women's writing. All selections will be read in English translation."

Page 187, 2001–2002 Calendar, following the title for Medieval Studies 3006, amend (Same as Women's Studies 3001) to read as follows:

"(Same as Women's Studies 3001 and English 3006)."

Page 203, 2001–2002 Calendar, following the title for Women's Studies 3001, amend (Same as Medieval Studies 3006) to read as follows:

"(Same as Medieval Studies 3006 and English 3006)."

Page 202, 2001–2002 Calendar, in addition, under Course List, Elective Courses, following Women's Studies 2001, amend next line to read as follows:

"Women's Studies 3001/Medieval Studies 3006/English 3006*. Women Writers of the Middle Ages"

During consideration of this item, Professor Hackett noted that the standardized form for calendar changes, which was approved by the Senate Committee on Undergraduate Studies, had not been used in this instance and course restrictions were not identified as they would have been if the standard form had been used.

4.4. School of Music

Page 208, 2001–2002 Calendar, following the sub-heading, Bachelor of Music Degree: Admission and Academic Standards, delete clause 17 which reads as follows:

"17. Supplemental examinations are not normally... a supplemental examination to be administered."

Delete the following courses in their entirety:

"Music 3102 Orchestration

Music 4102 Arranging"

New courses:

"Music 3112. Orchestration and Arranging 1 (3 cr. Hrs.). Principles of Orchestration and Arranging for instrumental ensembles with emphasis on the small ensemble.

Prerequisite: Music 2108 or permission of the instructor.

NOTE: Credit may not be received for both Music 3102 and Music 3112.

Music 4112. Orchestration and Arranging 2 (3 cr. hrs.). Principles of Orchestration and Arranging for instrumental ensembles with emphasis on the large ensemble.

Prerequisite: Music 3112, Music 3012 or permission of the instructor.

NOTE: Credit may not be received for both Music 4102 and Music 4112."

4.5 School of Nursing

Page 353, 2001–2002 Calendar, delete the section Diploma Programmes for Registered Nurses in its entirety.

Page 355, following the heading Course List, delete the entries for the following courses:

N2811. Community Health Nursing

N2831. Introduction to Community and Primary Health Care

N2840. Health Assessment and Management of Mental Health Problems

N3810. Nurse–Midwifery I

N3820. Nurse–Midwifery II

N3830. Nurse–Midwifery III

N3840. Nurse Midwifery IV

Following the course description for N3200. Transcultural Nursing, delete the following:

"NOTE: Credit may not be obtained for both N2820 and N3200."

Page 358, delete the section, 15 Credit Hour Courses in its entirety.

4.6 Faculty of Engineering and Applied Science

Page 386, 2001–2002 Calendar replace Chart of the Ocean and Naval Architectural Engineering Curriculum with the following:

"Ocean and Naval Architectural Engineering

TECHNICAL

ELECTIVES

TERM 3

TERM 4

TERM 5

TERM 6

TERM 7

TERM 8

TERM 8

3054

OCEAN ENGR

. HYDROSTATICS

4061

MAR PROD & ENGR.

MANG

COMPLEMENTA

RY

STUDIES

ELECTIVE

6002

SHIP HULL

STRENGTH

7002

SHIP STRUC

ANA & DESIGN

8000

DESIGN PROJECT

8030 HYDROELASTICITY

3205

CHEM & PHYS OF

MATERIALS II

4102

ENGINEERING

ECONOMICS

5011

RES & PROP

6045

MAR ENGR.

SYSTEMS

7005

FLOAT OCEAN

STRUCT DESIGN

8054

ADVANCED

MARINE

VECHICLES

8003
SMALL CRAFT DESIGN
3423

PROBABILITY AND

STATISTICS

4312

MECH OF

SOLIDS I

5312

MECH OF
SOLIDS II

6030
DYN. AND MAN. OF OCEAN VEH.

7033

MARINE

HYDRODYNAMICS

PHYS 4300

ADVANCED

PHYSICAL

OCEANOGRAPHY

8048
MAINT. OF ENGR. SYSTEMS

3844

BASIC ELECTRICAL

COMP & SYS

4422

INTRODUCTION TO NUMERICAL
METHODS

5435

ADVANCED

CALCULUS

6020

MARINE PROPULSION

7052

OCEAN SYSTEMS

DESIGN

8058

SUBMERSIBLES DESIGN

8090

SP TOPICS

IN MAR HYD

3901

THERMODYNAMICS

I

4901

THERMODYNAMICS II

5926
MECH COMPONENT
DESIGN I

6101

ASSESSMENT OF
TECHNOLOGY

7601
GEO. APP. IN OFFSHORE ENGR.

TECHNICAL ELECTIVE

8091

SP TOPICS

IN STRUCT
COMPLEMENTARY

STUDIES ELECTIVE

(Fast Track Students
Only)
4913

FLUID MECHANICS I

5932
MECH
VIBRATIONS

6925

AUTO CONTROL

ENGR.

8092

SP TOPICS

IN MAR ENGR.

Delete Table 5. Ocean and Naval Architectural Engineering – Offshore Oil and Gas Engineering Option in its entirety which was approved at the Senate meeting on April 10, 2001 and replace with the following:

"Ocean and Naval Architectural Engineering – Offshore Oil and Gas Engineering Option

TERM 3

TERM 4

TERM 5

TERM 6

TERM 7

TERM 8

3054

OCEAN ENG

HYDROSTATICS

4061

MAR PROD & ENG

MANG

COMPLEMENTARY

STUDIES

ELECTIVE

6002

SHIP HULL

STRENGTH

7002

SHIP STRUC

ANA & DESIGN

8600

OOGE PROJECT

3205

CHEM & PHYS OF

MATERIALS II

4102

ENGINEERING

ECONOMICS

5011

RES & PROP

6925

AUTO CONTROL

ENGINEERING

7005

FLOAT OCEAN

STRUCT DESIGN

PHYS. 4300
ADVANCED PHYSICAL OCEANOGRAPHY
3423

PROBABILITY AND
STATISTICS

4312

MECH OF
SOLIDS I

5312

MECH OF SOLIDS II

6030
DYN. AND MAN. OF
OCEAN VEH.

7033

MARINE

HYDRODYNAMICS

8058
SUBMERSIBLES
DESIGN
3844

BASIC ELECTRICAL

COMP & SYS

4422

INTRODUCTION TO

NUMERICAL

METHODS

5435

ADVANCED

CALCULUS

6101

ASSESSMENT OF TECHNOLOGY

7052

OCEAN SYSTEMS

DESIGN

OOGE ELECTIVE

3901

THERMODYNAMICS I

4901

THERMODYNAMICS II

5926

MECH COMPONENT

DESIGN I

6045

MAR. ENG. SYSTEMS

7601
GEO. APP. IN OFFSHORE ENGR.

OOGE ELECTIVE

4913

FLUID MECHANICS I

5932

MECH VIBRATIONS

6601
INTRO. OFFSHORE PET. ENGR.

NOTE: Bold and OOGE slots are courses from the Offshore Oil and Gas Engineering Option"

Delete the following courses in their entirety:

"E8021 Energy Efficiency in Marine Propulsion

E8062 Marine Production Management

E7035 Dynamics and Maneuvering of Ocean Vehicles

E6070 Geosciences Applied in Ocean Engineering"

Change the course number of E6058 Submersibles design to read
"E8058 Submersibles design"

New courses:

"E6020. Marine Propulsion. This is a second course in marine screw propellers and ship powering which includes design and analysis of marine propellers and unconventional propulsion devices. Significant emphasis is placed on systems such as waterjets; podded and azimuthing propulsors; contra-rotating propellers; high efficiency devices such as van wheels, wake equalizing ducts, swirl vanes; ducted propellers; novel devices such as oscillating propulsors to wind propulsion; design of ice-class marine propellers; and ship powering evaluation methods for vessels with compound propulsors. Relevant laboratory exercises.

E6030. Dynamics and Maneuvering of Ocean Vehicles. Applications of the linearised equations of motion to ocean vehicle problems with single and multiple degrees of freedom. Dynamics and maneuvering of marine vehicles: motions in calm water and in waves; hydrodynamics effects such as added mass, radiation and viscous damping; strip theory; irregular motions; and systems for course keeping and motion control. Relevant laboratory exercises.

E8030. Hydroelasticity. Applications of the linearised equations of motion to problems with multiple degrees of freedom: the rigid body modes alone; and the rigid body modes in conjunction with distortion modes. Introduction to hydroelastic analysis methods for ship and ocean structures: symmetric and antisymmetric response of the dry structure and of structures in still water and in waves; applications to real ship hulls; transient loading. Relevant laboratory exercises.

E8003. Small Craft Design. The fundamentals of naval architecture as practiced in small craft design are presented and a methodology developed for a variety of craft: tenders, lifeboats, planning vessels, dinghies, coastal cruisers and large, state of the art racing yachts. The emphasis is on recreational craft of all sizes, with special emphasis on sailing vessels. Special topics, such as choice of material of construction, scantlings, performance prediction, seaworthiness, tank testing, modern construction materials and techniques are covered. Specific design problems unique to small craft will be covered such as; mast design and sail area determination, and the state of the art in performance prediction. Students will do a design of their choice over duration of the course. Small weekly design studies will be required.

4.7. Sir Wilfred Grenfell College – Proposal for Changes to Core Programme Requirements and the Programme Structure for the Bachelor of Arts and Bachelor of Science DegreeA memorandum dated 31 July, 2001 was received from the Executive Committee of Senate advising that at a meeting held on July 26, 2001, the Committee discussed documents entitled "Proposal for Changes to Core Programme Requirements and the Programme Structure for the Bachelor of Arts and Bachelor of Science Degree Programmes – Sir Wilfred Grenfell College". After considerable discussion it was agreed to forward the document to Senate with a recommendation that the changes to Core Programme Requirements be approved, but that further consideration of the changes to the Programme Structure for the Bachelor of Arts and Bachelor of Science Degree Programmes be postponed until January or February, 2002, pending full consultation between academic Divisions at Sir Wilfred Grenfell College and Departments at the St. John's campus. The Executive Committee, while recognizing Grenfell's role to develop and deliver different and complementary major, minor and degree programmes from those offered at St. John's, considers this consultation necessary in order to permit a closer examination of cross campus issues involving comparability, transferability and expectations, particularly with respect to admission to honours and graduate programmes.

A further report to Senate will be made following the consultation process.

Dr. Simpson advised Senate, that because there is no strict comparability between the Departments at Memorial and the Divisions at Sir Wilfred Grenfell College, he has asked the Deans of Arts and Science to conduct consultations with the College.

It was moved by Professor Walsh, seconded by Professor Fowler and carried, that the changes to the Core Programme requirements be approved as follows:

Page 82, 2001–2002 University Calendar, following the heading 1. Core Programme Requirements, delete clauses a) Literacy, b) Numeracy and c) Science Concepts and Issues in their entirety and replace with the following:

"a) Literacy Requirement

Thirty credit hours in Writing courses which must include six credit hours in first-year English. Up to six credit hours in languages other than English may be used to satisfy the literacy requirement.

Courses in this group are identified with the designation W and are listed in table on page**.

b) Quantitative Reasoning and Analysis Requirement

Six credit hours in Quantitative Reasoning and Analysis courses. Courses in this group are identified with the designation QRA and are listed in table on page**.

(c) Breadth of Knowledge Requirement

Six credit hours from each of the three groups identified below for a total of 18 credit hours. The courses chosen can be any courses within the disciplines identified. However, students are not permitted to use these courses to meet the Quantitative Reasoning and Analysis requirement or the first-year English requirements.

Group A: Art History, Classics, English, History, Humanities, Languages, Philosophy, Religious Studies, Theatre, Visual Arts

Group B: Anthropology, Business, Economics, Education, Environmental Studies, Folklore, Geography, Political Science, Psychology, Recreation, Sociology, Women's Studies

Group C: Biology, Chemistry, Computer Science, Earth Sciences, Environmental Science, Mathematics, Physics, Science"

Page 83, 2001–2002 University Calendar, following the heading Explanatory Notes:, delete the second paragraph of clause 1, and replace with the following:

"Courses will be designated writing courses by the Academic Studies Committee. A Writing Course is a course in which a minimum of 30 percent of the course grade involves a specific component consisting of written work on which students will receive feedback. For the purpose of this regulation, the final

examination will not be counted as part of the evaluated writing component."

Delete clause 2. in its entirety and replace with the following:

"Courses will be designated Quantitative Reasoning and Analysis by the Academic Studies Committee. The Quantitative Reasoning and Analysis (QRA) Requirement is intended to help students develop a degree of appreciation of numerical, statistical and/or symbolic modes of representation, as well as an appreciation of the analysis, interpretation and broader quantitative application of such representations."

Insert the following New Tables:

DESIGNATED WRITING COURSES (W)

ANTHROPOLOGY: 2240, 2270, 2300

BIOLOGY: 2040, 2041, 2122, 2600

BUSINESS: 1000

CHEMISTRY: 2210

CLASSICS:1100, 1101, 2020, 2035, 2040, 2055, 2701, 2800, 2801, 3102, 3110, 3111, 3130

EARTH SCIENCES: 1000, 1001, 2914, 2915

ENGLISH: 1000, 1001, 1050, 1051, 1110, 2005, 2006, 2007, 2010, 2152, 2155, 2156, 2215, 2242, 2350, 2351, 2705, 2805, 3021, 3110, 3111, 3145, 3146, 3147, 3148, 3171, 3181, 3200, 3201, 3215, 3216, 3275, 3395, 3810, 3905, 4105, 4245, 4246, 4302, 4305, 4307, 4308, 4310, 4316, 4317, 4825-4835, 4836-4844, 4905, 4950

ENVIRONMENTAL SCIENCE: 2370, 2371, 3131, 3210, 3211, 4000, 4133, 4950, 4951, 4959

ENVIRONMENTAL STUDIES: 4000, 4950

FOLKLORE: 1000, 1050, 2000, 2300, 2500, 2600, 3130, 3200, 3300

GEOGRAPHY: 2001, 2303

HISTORY: 1000, 1100, 1101, 2035, 2040, 2100, 2110, 2200, 2210, 2300, 2310, 2330, 2700, 2701, 3050, 3060, 3110, 3120, 3440, 3450, 3460, 3520, 3525, 3700, 3701, 4231, 4730, 4731

HUMANITIES: 3000, 4000, 4950

PHILOSOPHY: 1001, 1200, 2200, 2220, 2230, 2701, 2702, 2800-2810, 3120, 3150, 3160, 3400, 3600, 3610, 3620, 3701, 3730, 3850, 3860, 3940, 4200-4790, 4200, 4250, 4700

PHYSICAL EDUCATION: 2300, 3330, 3340, 3350, 3410
POLITICAL SCIENCE: 1010, 1020, 2000, 2200, 2711, 3550, 3731
PSYCHOLOGY: 4910, 4950, 4951, 4959
RELIGIOUS STUDIES: 1010, 1020, 1021, 1030, 2011, 2013, 2050,
2051, 2800, 2801, 3820, 3840, 3880
SOCIOLOGY: 2240, 2270, 2610, 3150, 3290, 3395
THEATRE: 4050
VISUAL ARTS: 2700, 2701, 3620, 3700, 3701, 3702-3721, 3820,
4060, 4700-4729, 4730, 4731, 4740, 4741
WOMEN'S STUDIES: 2001
UNIVERSITY: 1010

DESIGNATED QUANTITATIVE REASONING AND ANALYSIS COURSES (ORA)

ARTS

Philosophy 2210, 3110
FINE ARTS

None
SCIENCE

Biochemistry 1430

Biology 2250, 2600

Chemistry (All courses)

Computer Science (All courses)

Earth Sciences 2150

Environmental Science (All courses with the exception of: 1000,
2360, 2370, 2371, 3072 and 4000)

Forestry 1010, 1011, 2225

Mathematics (All courses)

Statistics (All courses)

Physics (All courses)
SOCIAL SCIENCE

Economics 2010, 2020, 3150

Environmental Studies 2000

Geography 2220

Psychology 2925, 2950, 3950

Sociology 3040

5. Report of the Academic Council of the School of Graduate Studies

5.1 Department of Anthropology

Page 459, 2001–2002 Calendar, following the heading
Anthropology, amend clause 2. to read as follows:

"The choice of speciality will govern the selection of supervisor(s),
courses, and thesis or research paper topics. When... and the head
of the department."

Add new clause 4. as follows:

"4. Candidates in social and cultural anthropology may choose
between a thesis and a non thesis option.

Insert new subheading "M.A. With Thesis".

Re-number clauses 4, 5, 6, 7, 8 and 9 as 1, 2, 3, 4, 5 and 6.

Insert new subheading "M.A. Without Thesis", followed by the
following new entry:

"1. Normally, the M.A. programme without thesis should take one
academic year to complete. Candidates in social and cultural
anthropology who choose to do the M.A. without thesis must
normally complete 24 credit hours in graduate programme courses;
fifteen of which will normally be from S/C 6440, S/C 6890 and S/C

6300.* Nine additional credit hours are to be selected from the S/C graduate courses offered by the Department.

*NOTE: S/C 6440, Master's Research Paper, will be worth nine credit hours. This course will normally be based on secondary literature and will be supervised by a faculty member."

Page 460, following the subheading Courses, insert "S/C 6440. Master's Research Paper (9 credit hours)".

Amendment to calendar entry for Ph.D. in Anthropology approved at the March 13, 2001 meeting of Senate.

Following the subheading Courses, insert "S/C 6440. Master's Research Paper (9 credit hours)".

5.2 Computational Science

At a meeting held on May 8, 2001, Senate considered a proposal from the Chair of the Computational Science Programme which was submitted to Senate by the Academic Council of the School of Graduate Studies. At that time concern was expressed by Senators that issues regarding the replacing of two core graduate courses (CS 6717 and CS 6727) which are currently taught by the Department of Computer Science with new courses to be offered directly by the Computational Science Programme, did not appear to have been resolved. Senators also commented on the lack of a rationale for the proposal.

It was agreed that the proposal be referred back to the Academic Council of the School of Graduate Studies requesting that the outstanding issues be resolved before the document is returned to Senate.

A memorandum dated May 23, 2001, has now been received from the Academic Council of the School of Graduate Studies advising that at a meeting of May 22, 2001, Academic Council members discussed the concerns expressed by Senate relating to the proposed revisions to the Computational Science Programme. Following discussion, Academic Council agreed that there is sufficient documentation and rationale to support the proposed changes to the Computational Science Programme and recommends

approval. Additional documentation was submitted in support of this decision.

Following discussion, it was moved by Dean Kealey, seconded by Dean Lucas and carried that the following changes to the Computational Science Programme be approved:

New Courses

"CLSC 6900 – 6909. Special Topics

CLSC 6910. Computing Systems

CLSC 6920. Scientific Programming

CLSC 6990. Graduate Seminar"

Page 494, 2000–2001 University Calendar, following the heading Computational Science Programme, amend the first paragraph to read as follows:

"The Administrative Committee, appointed ... consists of at least one representative of each participating academic unit, and one member external to the university."

Following the subheading Participating Departments and Organizations, amend the next paragraph to read as follows:

"This interdisciplinary programme... Computational Science (Co-operative). The departments of Chemistry, Computer Science, Earth Sciences, Mathematics and Statistics, Physics and Physical Oceanography and the Faculty of Engineering and Applied Science are participants in this programme. Other departments and faculties may be involved, depending on the nature of the thesis or project. External organizations may ... participants in teaching courses."

Following the subheading Admission Criteria and Procedures, amend clause 2. to read as follows:

"2. The assessment of an applicant's likelihood...strong computational orientation. A general B.Sc. Degree, complemented

by relevant experience, may also be acceptable. At the time of application, the student will be invited to demonstrate his or her background in the field. For example, the successful completion of a suitable B.Sc. which included a number of computer science courses or an undergraduate B.Sc. thesis which involved scientific computing would generally be acceptable, as would work experience which involved computing in a scientific environment."

Following the heading Programme of Study, amend clause 1. to read as follows:

"The Computational Science Programme is designed to train students in the state-of-the-art numerical methods, high performance computer architectures, use of software development tools for parallel and vector computers, use of graphics and multimedia tools and application of these techniques to at least one scientific or engineering discipline."

Amend clause 4.(a), (b) and (c) to read as follows:

"(a) The three core courses are: Computational Science 6920, Computing Systems, Computational Science 6920, Scientific Programming, Mathematics 6210, Numerical Algorithms and Graduate Seminar 6990. The other courses will normally be taken from the list of approved courses.

(b) The thesis version requires the completion of 15 credit hours in graduate courses numbered 6000 or higher including 9 credit hours in prescribed core courses, and the submission... same field as the thesis work.

(c) The project version requires the completion of 24 credit hours in graduate courses, including 9 credit hours in prescribed core courses, plus a project... and no more than two semesters of full time work."

Following the sub-heading Co-operative Education Option, delete the following last sentence of clause 3.

"A requirement of the thesis is that it contain an original scholarly contribution."

Following the heading Courses, delete the first paragraph and replace with the following:

"The core courses are :

Computational Science 6910. Computing Systems (2 credit hours)

Computational Science 6920. Scientific Programming (3 credit hours)

Mathematics 6210. Numerical Algorithms

Computational Science 6990. Graduate Seminar (1 credit hour)"

Following the heading Department of Chemistry, delete "6300. Quantum Chemistry I".

Following the heading Department of Computer Science, delete the following courses:

6716. Concurrent Programming (required core course)

6721. Operating Systems Design

6727. Introduction to High Performance Computer Systems (required core course)

6743. Complexity of Computational Problems

6745. Special Topics – Advanced Computational Geometry

6753. Artificial Intelligence

Following the heading Department of Physics and Physical Oceanography, immediately following the entry for 6850. Quantum Mechanics I, insert the following new section:

"FACULTY OF ENGINEERING AND APPLIED SCIENCE

9015. Ocean Engineering Hydrodynamics

9052. Ice Properties and Mechanics

- 9430. Dynamical Systems
- 9501. Finite Element Analysis
- 9713. Stochastic Hydrology
- 9815. Electromagnetic Propagation
- 9821. Digital Signal Processing
- 9826. Advanced Control Systems
- 9861. High-performance Computer Architecture
- 9862. Artificial Neural Networks
- 9865. Advanced Digital Systems
- 9869. Advanced Concurrent Programming
- 9871. Information Theory and Coding"

6. Faculty of Engineering and Applied Science – Continuing Engineering Studies

It was moved by Dr. Haddara, seconded by Dr. Gosine and carried, that the following calendar changes be approved:

Page 402, 2001–2002 University Calendar, following the heading Continuing Engineering Studies, delete the section entitled Diploma Programmes, in its entirety and replace with the following:

"CONTINUING ENGINEERING STUDIES

In this current era of technological advancement it is necessary that practicing engineers continually keep pace with the changes relevant to their area of interest in order that the public trust, legislated to them, is justified and maintained. Although the primary responsibility for this rests with the individual engineer there is a need for a structured means, other than existing graduate programmes, to abet this continuing educational process. The

Faculty of Engineering and Applied Science, through its Continuing Engineering Studies Committee and with the endorsement of the Association of Professional Engineering and Geoscientists of Newfoundland (APEGN), has developed the following programmes of seminars and short courses for this purpose. These programmes are one means by which practicing engineers may maintain and improve their competence.

The content of each programme is formulated and prepared to reflect an anticipated need, or in response to a need expressed by the professional community. Information on each pending programme is advertised in the media and in selected professional and trade correspondence. Although the programmes are directed at practicing engineers other interested persons with equivalent background may participate. The Faculty, however, reserves the right to restrict participation as stipulated by specific admission requirements or as it otherwise deems appropriate or necessary. If response warrants, each programme (or some part thereof) is then presented in St. John's (on or off-campus), or in any other centre as required. Instruction is normally the responsibility of a team of university, industry, and government specialists selected for that programme. A participant's successful completion of each programme's requirements is recognized by the University in the form of a testamur, certificate, or diploma as designated to the particular programme.

Further information may be obtained through the office of the Director of Continuing Engineering Education.

DIPLOMA PROGRAMMES

A diploma programme comprises an integrated series of seminars, short courses and other study session directed at a specific subject area.

A diploma programme consists of a minimum of seven courses plus a project course. The programme of instruction is comprised of three components: a core component consisting of a minimum of three courses, an elective component consisting of a minimum of four courses, in addition to a project course. The project course usually has weight to that of two regular courses. The programme normally requires a minimum of three terms to complete.

The Continuing Engineering Education Committee, on behalf of Faculty Council, determines the courses that constitute a diploma programme from the list of courses given at the end of this section. The Committee can also choose other available University courses to be included in a diploma programme.

The following is a list of diploma programmes offered by the Faculty:

Diploma in Advanced Studies in Civil, Electrical, Mechanical and Ocean Engineering

Diploma in Advanced Studies in Environmental Engineering and Applied Science

Diploma in Advanced Studies in Safety, Risk and Integrity Engineering

Diploma in Engineering Management

CERTIFICATE PROGRAMMES

A certificate programme comprises an integrated series of seminars, short courses and other study sessions directed at a specific subject area. A minimum of six courses plus a project is required. Each certificate programme is comprised of three components: a core component consisting of a minimum of three courses, an elective component consisting of at least three courses and a project course. The project course usually has the same weight as a regular course.

The Continuing Engineering Education Committee, on behalf of Faculty Council, selects the list of courses, which constitutes a certificate programme from the list of courses given at the end of this section. The Committee can also choose other available University courses to be included in a diploma programme. Currently, the Faculty offers a certificate programme in Electrical Maintenance for Engineers. The programme normally requires a minimum of two terms to complete.

APPLICATION FOR ADMISSION

The diploma and certificate programmes are the responsibility of the Faculty of Engineering and Applied Science and are intended for professional engineers. Applications for admission should be made to the programme on appropriate forms available from Continuing Engineering Education, Faculty of Engineering and Applied Science. Entry to the programme is not normally restricted to any particular time of year, rather completed applications are judged by an Admissions Committee as soon as possible after they reach the CEE office. To ensure that applications are processed as quickly as possible, applicants should provide complete documentation and transcripts with the application form.

ADMISSION REQUIREMENTS

Normal entrance requirement is one of the following:

- a) Membership in the Association of Professional Engineers and Geoscientists of Newfoundland (APEGN).
- b) A Bachelor of Engineering degree from a recognized university, and three years experience in engineering work.

Individuals who do not possess the qualifications listed above may be admitted to the certificate or diploma programme if they can satisfy the Faculty of Engineering and Applied Science that they have qualifications and experience which ensure a reasonable chance of success in the programme.

EXEMPTIONS AND EQUIVALENT CREDIT

A student who has taken previous technical courses which have not been applied for previous credit may be exempted from taking similar courses in a Diploma Programme, up to a maximum of two courses. Normally courses taken within the past two years and for which the student's work was formally evaluated will be considered for exemption. Exemption for courses taken more than two years in the past may be granted by the Admissions Committee.

Students requesting exemptions should apply in writing to the Director of Continuing Engineering Education, with supporting documentation about the course(s) they hope to use for

substitute(s). Documentation must include an official course outline or calendar description and a transcript of the grade(s) obtained.

SUBSTITUTE COURSES

Where a course in a Diploma Programme has had to be cancelled, registrants to this course may be allowed to attend a similar course which may be offered as part of some other programme at the University, should space permit. They will receive credit for the substitute course towards their diploma.

Students requesting credit for substitute courses should apply in writing to CEE prior to taking the course with an official outline or calendar description of the course(s) they wish to substitute.

FORMAT

The format of the courses offered as part of this programme will be varied. In addition to the normal lecture-type courses offered at evening sessions, there may be day seminars, and short intense courses running a week or more. The format for courses offered in any semester will be announced by CEE prior to the beginning of that semester.

EVALUATION

Each course in the diploma programme will contain an evaluation procedure established by the instructor for that course. A mark of 60% must be achieved in each course taken in order to obtain credit.

FACULTY

Most courses are offered by a team of instructors drawn from the Faculty of Engineering and Applied Science, other faculties, and specialists from industry.

PERIOD OF STUDY

Normally a student will complete the Diploma Programme in two years. If he/she cannot complete it in two years, the student may apply to the Diploma Committee for an extension, which may be

granted for one year. A maximum of three extensions may be granted. This means that the total extended period including the normal time of two years will not exceed five years.

TESTAMUR PROGRAMMES

A testamur programme is normally a single course, seminar, symposium, or other study session directed at a specific subject area and which is presented over a one to four day period. Normally there are no evaluation procedures applied to these programmes.

Specific testamur programmes are not listed in the Calendar. Brochures containing information on the subject matter, fees, dates, places, and registration are distributed through an extensive mailing list, and advertised in the media and selected trade and professional correspondence. A registration form is contained in each brochure or is available from the Director of Continuing Engineering Education.

PROGRAMME CANCELLATION

The Faculty reserves the right to postpone or cancel any programme, in whole or in part, due to insufficient advance registration or for any other reason it deems appropriate. Any fees paid in advance will be returned subject to the terms and conditions on the registration form.

LIST OF COURSES

ENGC 9000. Basic Safety, Reliability, Risk Concepts and Legislation

ENGC 9001. Statistical Quality Control and Design of Industrial Experiments

ENGC 9002. Uncertainty, Risk and Reliability Analysis for Engineers

ENGC 9003. Risk and Decision Analysis Applied to Engineering Systems

ENGC 9004. Advanced Reliability and Risk Analysis

ENGC 9007. Corrosion Engineering

ENGC 9008. Fire and Explosion Engineering

ENGC 9009. Introduction to Petroleum Technology

ENGC 9010. Introduction to Sub-Sea Technology

ENGC 9011. Introduction to Drilling Technology

ENGC 9012. Reliability of Software, Safety Critical Electrical/Electronic Systems

ENGC 9013. Reliability of Structural Systems

ENGC 9014. Fatigue and Fracture Mechanics

ENGC 9015. Introduction to Environmental Engineering

ENGC 9017. Environmental Risk Analysis

ENGC 9018. Overview and Introduction to Ergonomics

ENGC 9019. Introduction to Occupational Medicine

ENGC 9020. Introduction to Occupational Hygiene

ENVSCI/ENG 6002. Environmental Chemistry and Toxicology

ENGC 9500. Technical Communications

ENGC 9512. Project Planning and Management

ENGC 9600. Project Course for Diploma Programmes

ENGC 9612. Waste Management

ENGC 9614. Municipal Solid Waste Management

ENGC 9620. Environmental Sampling and Analysis I

ENGC 9621. Introduction to Environmental Statistics

ENGC 9622. Environmental Management System

ENGC 9624. Computer Applications in Environmental Science and Engineering

ENGC 9625. Environmental Sampling and Analysis II

ENGC 9630. Air Pollution

ENGC 9800. Project Course for Certificate Programmes

ENGC 9810. Computer Applications I for Certificate Programmes

ENGC 9812. Computer Applications II for Certificate Programmes

ENGC 9820. Electric Machines and Power Electronics

ENGC 9822. Electrical Power Systems Analysis and Design

ENGC 9825. Electrical Equipment and Standards"

7. Report of the University Planning and Budget Committee

A memorandum dated May 7, 2001 was received from the University Planning and Budget Committee forwarding for approval documents entitled:

(a) Policies and Procedures for the Establishment of University Institutes and Centres, and

(B) Procedures for the Review of University Institutes and Centres

Dr. Simpson introduced the documents noting that Senate, at a meeting held on May 9, 2000, approved new procedures for the review of academic units and programmes. Since that time several departments have undergone reviews and the process is working well. It is anticipated that reports emanating from these reviews will be submitted to Senate during the Fall semester. Dr. Simpson advised that during Senate's consideration of these procedures it was recognized that the question of similar procedures for units which lie outside the normal academic structure would have to be addressed. He pointed out that the Procedures for Review of

University Institutes and Centres are clearly modeled on those for review of academic programmes.

Following a lengthy discussion, it was moved by Dr. Simpson, seconded by Dr. Usher and carried, that (a) Policies and Procedures for the Establishment of University Institutes and Centres, and (b) Procedures for the Review of University Institutes and Centres, be approved.

ITEMS FOR INFORMATION

8. Name Change for the School of Physical Education, Recreation and Athletics

A memorandum dated 30 May, 2001 was received from the Board of Regents approving a recommendation from Senate that the name of the School of Physical Education, Recreation and Athletics be changed to the School of Human Kinetics and Recreation.

9. Student No. 7663263

A memorandum dated August 29, 2001 was received from Mrs. Maire O'Dea, Acting Secretary of Senate, advising of the recent death of Student No. 7663263. Hence, this student case is considered closed.

10. Remarks from the Chair – Questions/Comments from Senators

The President reported to Senators as follows:

* During May and early June, 2001, at convocation ceremonies held at the St. John's campus, Sir Wilfred Grenfell College and the Marine Institute, approximately 2700 degrees, diplomas and certificates were awarded. On behalf of the University and himself, the President expressed appreciation for the work done by members of the University community to make Convocation such a memorable event.

* In June, the Government of Canada introduced the Atlantic Innovation Fund (AIF), with a first submission deadline of September 28. There are approximately a dozen projects in active development

which are being overseen by Dr. Loomis, Acting Vice-President (Research and International Relations). There is a total of \$300M in the fund and while the deadline for the first round of submissions is September 28, there will be subsequent rounds.

* Also in June, the Discovery Smart Conference was held in Clarenville, with 200 in attendance, including representatives from Memorial. Such participation gives recognition to the University and is very much appreciated within the region. The President encouraged others to participate in such events.

* Another event in June was the NOIA Conference with 1000 registrants, including four Memorial faculty members, Dr. S. Bornstein, Dr. B. Neis, Dr. I. Jordaan and Dr. J. Wright. The President commented that such participation is a good way to showcase the work which is being done at Memorial.

* In July the President represented Memorial at the Beaumont Hamel commemoration. He noted that the CAMS group had made a video of the commemoration ceremony which was shown by CBC. A shortened version of the video will be available for use at Memorial's Remembrance Day ceremony this year. He also noted that at the new Visitors Centre there, reference is made to Memorial University as a positive and lasting memorial to Newfoundlanders who died in World War I.

* In August, the Board of Regents approved the establishment of the Memorial Recreation Complex (MURC) which encompasses the Field House; the Aquarena; the School of Human Kinetics and Recreation's pool, strength/conditioning centre, squash courts and gymnasium; the Splash facility; and outdoor playing fields. The financing of the Complex was a difficult task and ultimately the Board decided to impose a mandatory user fee of \$40.00 per semester for students who are expected to be the major users of the facility. The President advised that student representatives, including the President of MUNSU, Mr. Wiseman, had spoken eloquently against this proposal and about its implications for students, but the University could see no other way of managing the facility without imposing the fee. The President commented that, from his own perspective, it is important that students partake

not only in the use of the facility but in the planning of the programmes and the way they are offered. He also noted that the Field House is due to open in January, 2002.

* The President commented on the layout and acoustics of E5004 which are less than ideal for Senate meetings and suggested that it would be appropriate for a small committee of Senators to be appointed to consider inexpensive improvements to the layout of the room designed to make it more suitable for meetings of Senate and for other events. He requested that Senators who may be interested in serving on such a committee contact the Secretary, following which the Committee on Committees will be asked to strike an ad hoc committee

Key Issues for Fall Semester, 2001

* Student Recruitment and transition will continue to be a matter of high priority as it has been during the past year. The President noted that while enrollment for Fall semester 2001 is the same as for Fall 2000, this is not a simple accomplishment in light of the declining high school population due to out-migration and smaller family sizes. This year public examinations were re-introduced and fewer students achieved the admission standards required for admission to the University. The President thanked all members of the units concerned who contributed to sustaining university enrollments. One initiative of the Registrar's Office was to contact over 700 students who are close to graduation, but who have not attended Memorial recently. The President noted that it is important to help these students receive their degrees, and this initiative has been quite successful, not only in terms of returning students, but also in terms of conveying Memorial's interest in them. Many were pleasantly surprised to receive a call, or a letter, although it may not have been feasible for them to enrol at this time.

* The Atlantic Investment Fund will continue to be a high priority in the coming months.

* The search for Vice-President (Research and International Relations) continues. The Search Committee has met to consider a number of applications and has concluded that the final short-listed candidates should be given the opportunity to make

presentations to the University community, who will then be asked to forward their observations on the candidates to the Committee. It is anticipated that by the second half of October the Committee will be in a position to make its recommendation to the Board.

Questions from Senators

* Dr. Treslan asked whether the renovations being undertaken at The Maltings would affect students making application to attend Harlow campus in September 2002. The President responded that it is expected that the renovations to The Maltings will be completed by the end of August and will be ready to accommodate students in September. Depending on the number of students, accommodations will be found in the facility..

* Dr. McKay commented that the poor results in some of the Public Examinations, were in his opinion, beyond the realm of probability and that this has had a major impact on Memorial's enrollment. If the same type of results continue, the number of students that will have to take remediation before they are eligible for Memorial could be large, and he asked if Memorial is actively pursuing the matter of the Public Examination results.

The President responded in the affirmative and advised that this year's results reflect a normal pattern when significant changes of this nature are introduced, but noted that in a year or two a return to a normal pattern is expected. The problems seen this year are principally adjustments in the system and are in line with expectations.

Dr. Simpson commented that it is likely that the students who are not admissible to university as a result of public examinations are those whose level of preparation is not yet sufficient for university studies. It by no means follows that these people are excluded from university because there are a variety of alternatives for admission, many of which require a little more maturity. Remediation can help in certain cases, and life experience may help others.

Dr. McKay suggested that the University may want to be on alert to assist students whose entrance to the University may have been jeopardized by a testing procedure that has not been validated.

* Ms. Lippold asked when Senate could expect Recommendation 3 of the Report of the Sub-Committee on Grading Practices, which was tabled pending further consultation with the academic and faculty councils, to be back before Senate. Ms. Walsh advised that it is anticipated that this item will be on the agenda for the November Senate meeting.

* Mr. Wiseman commented, that while he did not wish to begin a major discussion on this particular topic at this time, he did want to advise Senate that MUNSU will continue to fight the imposition of the \$40.00 per semester user fee. He advised that MUNSU has received many views on this matter, and will be pleased to receive any comments or concerns regarding this issue from faculty or students, both past and present.

OTHER BUSINESS

11. Preliminary Enrollments for Fall Semester, 2001

A memorandum dated September 11, 2001 was received from the Registrar with preliminary reports of enrollment for Fall Semester 2001 as of September 5, 2001. The regular registration period ends on September 19, 2001 after which time enrollment reports will be finalized . Mr. Collins noted that until that date the numbers change on a daily basis, but when the figures are finalized, they will be made available to the University community.

12. ADJOURNMENT

The meeting adjourned at 5:50 p.m.