

MEMORIAL UNIVERSITY OF NEWFOUNDLAND
SENATE

The regular meeting of Senate was held on September 9, 2003, at 4:00 p.m. in Room E5004, Education Building.

1. PRESENT

The President, Dr. M. Collins (on behalf of Dr. E. Simpson), Dr. A. Fowler, Professor M. Beaton, Dean A. Collins, Dr. S. Birnie-Lefcovitch, Mr. R. Ellis, Dr. T. Gordon, Dean G. Gorman, Dr. C. Higgs, Dean R. Lucas, Mrs. M. O’Dea, Mr. L. O’Reilly, Dean L. Walker, Ms. D. Whalen, Dr. R. Adamec, Dr. J. Ashton, Professor P. Ayres, Dr. D. Buell, Mr. C. Couturier, Mr. C. Dennis, Dr. R. Gosine, Professor M. Hackett, Dr. L. Hermanutz, Dr. S. Kocabiyik, Professor V. Kuester, Dr. D. McKay, Dr. M. Morrow, Dr. M. Murray, Dr. F. Murrin, Captain W. Norman, Dr. H. Pike, Dr. J. Quaicoe, Dr. V. Richardson, Dr. D. Rideout, Dr. E. Simms, Dr. M. Skipton, Dr. D. Thompson, Professor D. Walsh, Dr. P. Wilson, Dr. S. Wolinetz, Dr. J. Wright, Mr. J. Baker, Ms. K. O’Brien-MacDonald, Mr. S. Sullivan, Mr. T. Duggan, Ms. J. Magalios.

2. APOLOGIES FOR ABSENCE

Apologies were received from Dean I. Bowmer, Captain J. Ennis, Interim Dean M. Haddara, Dr. J. Harris, Dr. L. Hensman, Dean C. Jablonski, Dr. D. Kimberley, Dr. C. Loomis, Dr. M. Mulligan, Dr. D. Neville, Dr. S. Peters, Dr. F. Shahidi, Dr. E. Simpson, Dr. K. St. John, Dr. J. Wyse.

The Chair opened the meeting by welcoming Senators back for the first meeting of Senate for the Fall Semester. He extended a special welcome to the following newly elected and re-elected Senators:

Dr. James Wyse	Business Administration
Dr. Ray Gosine	Engineering and Applied Science
Dr. John Quaicoe	Engineering and Applied Science
Ms. Vivienne Kuester	Human Kinetics and Recreation
Mr. Christopher Dennis	Library
Captain John Ennis	Marine Institute
Captain Wayne Norman	Marine Institute
Dr. Luis Hermanutz	Science
Dr. Serpil Kocabiyik	Science
Dr. Michael Morrow	Science
Dr. Elizabeth Simms	Social Sciences
Mr. Jamie Baker	Graduate Student

The Chair advised that the term of office for the following undergraduate student Senators has been extended until September 30, 2003:

Ms. Gail Bell
Mr. Thomas Duggan
Ms. Melissa Ivany

Dr. Meisen noted that Dr. Dennis Treslan would be resigning from Senate effective September 1, 2003 and thanked him for his contribution to the Senate and Senate committees.

3. MINUTES

The Minutes of the regular meeting held on May 13, 2003, were taken as read and confirmed.

4. Report of the Committee on Honorary Degrees and Ceremonial

Senate moved into a closed session for this item of business in accordance with **Section IV.E.2. SENATE MEETINGS AND PROCEDURES** of the Handbook of Senate By-Laws and Procedures which reads:

Matters of a confidential nature, including honorary degrees, shall be discussed in closed session; observers are not permitted to attend closed sessions.

A recommendation was received from the Committee on Honorary Degrees and Ceremonial that the colour “chocolate brown” be approved for the hood edging colour for the Master of Employment Relations program.

It was moved by Dean Gorman, seconded by Dr. Ashton and carried, that this request be approved.

5. Final report of the ad hoc Committee on the appeal of Student No. 9720798 - Appeal of the Failing Grade Received in Education 401X

At the April 2003 meeting of Senate, an ad hoc Committee was appointed to consider the appeal of Student No. 9720798 of the failing grade received in Education 401X, the internship component of the Bachelor of Education (Primary/Elementary) program, taken in the 2002 Fall Semester.

At today’s meeting, Dr. Quaicoe, ad hoc Committee Chair, presented the final report of the ad hoc Committee. The Chair welcomed other members of the ad hoc Committee, Dr. Carolyn Harley, Dr. Mike Doyle, Mr. Ken Knowles, and Mr. Thomas Duggan.

Dr. Quaicoe reported that the ad hoc Committee met on April 23, April 24, and May 9, 2003, to discuss and review the terms of reference and documentation received. A meeting was held on May 13, 2003 with the appellant and subsequent meetings with individuals involved in the appeal were held on May 20, May 22 and May 23, 2003. The ad hoc Committee met on May 26, 2003, to deliberate and prepare a final decision and again on May 27, 2003, to prepare the final report and recommendation to be forwarded to Senate.

After review and consideration of the evidence taken from all the documentation and the interviews conducted, the ad hoc Committee is recommending that the appeal of Student No. 9720798 be denied for the following reasons:

- The evidence indicates that Student No. 9720798 was unable to meet the needs of the children in the classroom. There were significant difficulties in the areas of written communication, mathematics, and to some degree, reading.
- The student's disagreement with any need for improvement on November 18, 2003, supports a difficulty in self-evaluation.
- There were no significant breaches in procedures as outlined in the MUN Internship Handbook, 2002-2003.
- There was no breach of procedural fairness by the Faculty of Education.

The ad hoc Committee also made a recommendation that:

“The Faculty of Education discuss options with the student to complete the requirements for his/her B.Ed., that would not lead to a teaching certificate. These could be unspecified education credits for his/her work with adults in the Discovery Centre. Alternatively, he/she could complete additional courses in the Faculty of Education.”

The motion, moved by Dr. Quaicoe and seconded by Dr. Wilson, that the appeal of Student No. 9720798 against the failing grade received in Education 401X, be denied, carried.

6. Report of the Senate Committee on Undergraduate Studies

6.1 Department of Biology

Page 229, 2003-2004 Calendar, under the heading, Biology, under the subheading, Course List, delete the course 2010 from the prerequisite listing

for B3711.

Under the subheading, Course List, delete the course description for Biology 4601 in its entirety and replace with the following:

“4601. Functional Biology of Fish. An introduction to anatomical, physiological and cellular aspects of selected processes in the life cycle of fishes.

Prerequisites: Biology 2060, 2210, and 3401.”

6.2 Sir Wilfred Grenfell College

Page 90, 2003-2004 Calendar, under the heading, Division of Social Science, under the subheading Minor Programs - Division of Social Science, immediately preceding the subheading, Environmental Studies Minor, insert the following:

"Minor in Canadian Studies

A Minor in Canadian Studies shall consist of 24 credit hours as follows:

a) Fifteen credit hours in courses on the following list from at least four different disciplines:

- English 2146. Canadian Prose after 1949.
- English 2156. Canadian Short Stories.
- French 1502. Introductory University French III.
- French 2601. Reading Skills.
- French 2602. Reading Complete Texts.
- History 2200. Canadian History: 1497-1867.
- History 2210. Canada Since 1867.
- Political Science 1010. Canadian Political Problems.
- Political Science 2710. Introduction to Canadian Politics I.
- Political Science 2711. Introduction to Canadian Politics II.
- Sociology/Anthropology 2240. Canadian Society and Culture.

b) Nine additional credit hours in courses on the following list from at least two different disciplines:

- Art History 3710. Canadian Art to 1900.
- Art History 3711. 20th Century Canadian Art.
- English 3145. Canadian Fiction to 1949.
- English 3147. Canadian Poetry to 1949.
- English 3148. Canadian Poetry after 1949.
- English 3149. Canadian Prose.
- English 4307. Contemporary Canadian Drama.
- English 4825-35. Special Topics in Canadian Literature.

- Folklore 4300. Folklore of Canada.
- History 2120. The History of Canadian-American Relations, 1783 to the Present.
- History 3520/Anthropology 3520. The Early Ethnohistory of North America's Native People.
- History 3525/Anthropology 3525. The Later Ethnohistory of North America's Native People.
- History 4254. Special Topics in Canadian History: A History of Social Welfare.
- Political Science 3731. Environmental Policy.
- Sociology 3395. Criminal Justice and Corrections."

Page 91, 2003-2004 Calendar, under the heading Major in Environmental Studies, under the subheading 1. Environmental Studies Core, delete the first sentence and replace with the following:

"Students must complete the following courses:"

Under the subheading, 2. Environmental Studies Concentrations, under the subheading, 1) Environmental Perspectives Concentration, delete the first sentence and replace with the following:

"Forty-two credit hours at least 21 of which must be at the 3000 or 4000 level:"

Under the subheading 1) Environmental Perspectives Concentration, insert the following courses:

- "- Biology 1001 and 1002 (Principles of Biology)
- Biology 2600 (Principles of Ecology)
- Chemistry 1001 (General Chemistry II)
- Chemistry 1200 (General Chemistry I)
- Earth Sciences 1000 (Earth Systems)
- Earth Sciences 1002 (Concepts and Methods in Earth Sciences)
- Environmental Science 2261 (Survey of Environmental Chemistry)
- Environmental Science 2360 (Geological Hazards and Natural Disasters)
- Environmental Studies 3010-3029 (Special Topics in Environmental Studies)
- Forestry 1010 and 1011 (Introduction to Forestry)"

Under the subheading, 2) Outdoor Environmental Pursuits Concentration, insert the following courses:

- "- Recreation 3555 (Outdoor Recreation Management)

- Recreation 4555 (Leadership and Supervision in Recreation)”

Under the subheading, 2) Outdoor Environmental Pursuits Concentration, delete the first sentence immediately following “AND” and replace with the following:

“Twenty-seven credit hours from the following of which at least 9 credit hours must be at the 3000 or 4000 level:”

Under the subheading, 2) Outdoor Environmental Pursuits Concentration, insert the following courses:

- “- Biology 1001 and 1002 (Principles of Biology)
- Biology 2041 (Modern Biology and Human Society II)
- Biology 2600 (Principles of Ecology)
- Chemistry 1001 (General Chemistry II)
- Chemistry 1200 (General Chemistry I)
- Earth Sciences 1000 (Earth Systems)
- Earth Sciences 1002 (Concepts and Methods in Earth Sciences)
- Environmental Science 2261 (Survey of Environmental Chemistry)
- Environmental Science 2360 (Geological Hazards and Natural Disasters)
- Environmental Science 2371 (Oceanography)
- Environmental Studies 3010-3029 (Special Topics in Environmental Studies)
- Forestry 1010 and 1011 (Introduction to Forestry)”

Under the subheading, 2) Outdoor Environmental Pursuits Concentration, delete the following courses:

- “- Recreation 4555 (Leadership and Supervision in Recreation)
- Geography 4405 (Outdoor Recreational Resources and Planning)
- Recreation 3555 (Outdoor Recreation Management)”

Page 105, 2003-2004 Calendar, under the heading Environmental Studies Courses, under the subheading, New Course Numbering, delete the prerequisite for **2000** in its entirety and replace with the following:

“Prerequisites: Geography 1000 or Earth Sciences 1001.”

Delete the note for course **2000**.

Delete the prerequisite for course **2210**.

Delete the note for course **3000**.

Delete the prerequisite for course **4000**.

Delete the prerequisite for course **4010** in its entirety and replace with the following:

“Prerequisite: Permission of the Environmental Studies Program Chair.”

Delete the prerequisite for course **4950** in its entirety and replace with the following:

“Prerequisite: Permission of the Environmental Studies Program Chair.”

Page 107, 2003-2004 Calendar, under the heading, Geography, add the following sentence at the end of the course description for **2220**:

“Three hours of lecture and three hours of laboratory per week.”

Delete the prerequisite for **2220** in its entirety.

Page 105, 2003-2004 Calendar, under the heading, Environmental Studies Courses, under the subheading, New Course Numbering, insert the following new course:

“3010-3029. Special Topics in Environmental Studies.

NOTE: Normally taken by students beyond the second year.”

Page 93, 2003-2004 Calendar, under the heading, Division of Science, delete the first paragraph in its entirety and replace with the following:

“Bachelor of Science (General and Honours) degrees are available in Environmental Science, General Science and Psychology.”

Page 94, 2003-2004 Calendar, immediately preceding the heading, Minor Programs - Division of Science, insert the following new program:

“MAJOR IN GENERAL SCIENCE

Program Chair:

Students completing the Major in General Science will complete a General Science Core. In addition, they will complete a minimum of 24 credit hours (or 18 credit hours in the case of Mathematics) in each of three streams chosen from Biology, Chemistry, Earth Systems, Mathematics or Physics. The allowable courses that can be chosen from each stream are listed below.

1. General Science Core

Students must complete

a) **Course Requirements**

Mathematics 1000, 1001

Science 4000 (General Science Seminar)

b) **Independent Project**

Science 4950

2. General Science Streams

Students must complete at least 24 credit hours in each of three streams (18 credit hours in Mathematics), chosen from the following list of courses:

Biology:

Biology 1001, 1002

Eighteen credit hours from Biology 2010, 2600, 2210, 2122, 2250, Environmental Science 3110, 3130, 3131, 3072 where at least 9 credit hours must be at the 2000 level and at least 6 credit hours must be at the 3000 level.

Chemistry:

Chemistry 1200, 1001, 2210, 2300

Three credit hours from Chemistry 2400 or 2440

Nine credit hours from Chemistry 2401, Environmental Science 2261, 3210, 3211, 3260, 3261, where at least two of the courses chosen must be beyond the 2000 level.

NOTE: The Physics prerequisite for Chemistry 2300 may be waived by the Program Chair.

Earth Systems:

Earth Science 1000, 1001 or 1002

Any 18 credit hours (six courses) from the following list, at least two of which are beyond the 2000 level: Environmental Studies 2000, 3001, Environmental Science 2360, 2370, 2371, 2450, 3470, 4069, 4479, Earth Science 3811.

Mathematics:

Mathematics 2000, 2050

One of Pure Mathematics 2320 or Mathematics 2051 or Mathematics 2001

One of Statistics 2550 or Computer Science 1700

Applied Mathematics 3260

One further 3000 level Mathematics course

Physics:

Physics 1050, 1061, 2056, 2065, 3220, 3060

Two of Physics 2151, 3160, Earth Science 2150, Environmental Science 2430, 2450, 3470, 4479

NOTE: Students following this stream should be aware of the fact that the study of Physics requires a strong background in Mathematics. Because of this, a number of the required Physics courses have additional Mathematics prerequisites beyond the completion of Mathematics 1000/1001. Specifically, students in this stream must complete the courses Mathematics 2000, 2050 and Applied Mathematics 3260.

NOTE: A student may not use the same course to satisfy the requirements of more than one stream.

REQUIREMENTS FOR HONOURS IN THE GENERAL SCIENCE DEGREE

The Bachelor of Science (Honours) degree in General Science requires students to gain greater depth in one or more of their three chosen streams. It also requires a higher level of academic achievement than is required for the general degree. The Bachelor of Science (Honours) in General Science is a 120 credit hour program normally requiring four years for completion (see regulations for an Honours degree in Arts and Science at Sir Wilfred Grenfell College). The following requirements govern the Bachelor of Science (Honours) in General Science:

1. Course Requirements

a) General Science Core:

Students must complete all of the course requirements of the General Science Core.

b) General Science Streams:

In addition to the courses required under the General Degree regulations, students must complete two additional courses from at least one of their three chosen streams. These additional courses must come from the list of courses given in the stream requirements, and must both be beyond the 2000 level.

2. Honours Dissertation:

For students doing Honours, the Independent Project Science 4950 will be replaced by a two-semester Honours Project, Science 4951/Science 4959.

3. Academic Standing:

In order to graduate with an Honours degree, a student must satisfy the regulations regarding academic standing as specified under Regulations for Honours degree of Bachelor of Science at Sir Wilfred Grenfell College. Courses used to calculate the academic standing as outlined in the General Regulations for an Honours Degree at Sir Wilfred Grenfell College include

all courses listed in the stream requirements, with the exception of all 1000 level courses.”

Page 98, 2003-2004 Calendar, under the heading, Course Descriptions, under the subheading, Physics, delete the course description for Physics 1054 in its entirety and replace with the following:

“**1061. University Physics II.** Simple harmonic motion and waves; electricity, magnetism; geometrical and physical optics. Calculus-based, continuing the intensive use of computers begun in Physics 1050.

Lectures: Three hours per week.

Laboratories: Three hours per week.

Tutorials: Two hours every two weeks.

Credit Restrictions: Physics 1054, Physics 1021

Prerequisites/Co-requisites: Physics 1050 and Mathematics 1001. Mathematics 1001 may be taken concurrently.”

Under the subheading, Physics, immediately following the course description for 2056, add the following new course:

“**2065. Experimental and Computational Physics.** Laboratory techniques, including experimental method and design. Data analysis, including application of statistics to experimental physics. Numerical analysis using Maple, and an introduction to modeling in physics. Topics are introduced through experiments, complementary lectures, and library research of some of the great experiments of physics.

Lectures and laboratories: Six hours per week.

Prerequisites/Co-requisites: Physics 1061 (or 2054), Mathematics 1001, and Mathematics 2050 which may be taken concurrently.

NOTE: Students who have completed Physics 1020/1021 will be allowed to register for Physics 2065 with the permission of the Instructor and the Program Chair.”

Under the subheading, Physics, immediately following the course description for 2151, add the following two new courses:

“**3060. Electricity and Magnetism.** Point charges; Coulomb’s law; electrostatic field and potential; Gauss’s law; conductors; magnetostatics; Ampere’s law; Biot-Savart law; dielectric and magnetic materials; electrostatic and magnetostatic energy; Lorentz force; time varying fields; Faraday’s law; Lenz’s law; Maxwell’s equations.

Lectures: Three hours per week.

Laboratories: Normally three hours per week.

Prerequisites/Co-requisites: Physics 1061 and Applied Mathematics 3260. Applied Mathematics 3260 may be taken concurrently.

3160. Stellar and Galactic Astronomy. The physics and mathematics of stars and galaxies. Orbits and the two-body problem, radiation and matter, theory of stellar atmospheres, structure and evolution of stars. Galaxies: Morphology and kinematics. Milky Way kinematics and structure, large-scale star formation, the distribution of interstellar matter in galaxies. Starburst and active galaxies. An introduction to cosmology. Lectures: three hours per week. Credit restrictions: Physics 3150, 3151. Prerequisites/Co-requisites: Physics 2056, 2151 and Mathematics 2000. Physics 3220 is recommended.”

Under the subheading, Science, immediately following the course description for 3001, add the following four new courses:

“4000. Senior Science Seminar. Current topics in science are reviewed and discussed in a seminar format. Seminars will be presented by faculty, students and guest speakers. Prerequisites/Co-requisites: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more. *NOTE: This will be a designated Writing Course.*

4950. Senior Project. Students will work either individually or in pairs on developing a poster presentation on specific scientific topics of current interest. This will require a detailed proposal, followed by the necessary relevant research in appropriate journals and Internet sources. Participants in this course will organize a mini-conference, to be held at the end of semester, at which these posters will be presented. Where appropriate, students will be encouraged to integrate knowledge from at least two different scientific disciplines in the development of this project. Prerequisites/Co-requisites: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more. *NOTE: This will be a designated Writing Course.*

4951. Honours Project I. Under the guidance of a faculty supervisor, the student will prepare a Project proposal, and carry out a comprehensive bibliographical review, with the aim of producing a well-annotated Bibliography. Prerequisites/Co-requisites: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more. *NOTE: This will be a designated Writing Course.*

4959. Honours Project II. This is a continuation of Science 4951. Under

the supervision of a Faculty Advisor, students will prepare an Honours Thesis. The preparation of this will entail some original research, and will require the student to integrate knowledge from at least two disciplines. Prerequisites/Co-requisites: Science 4951 and permission of the Program Chair.

NOTE: This will be a designated Writing Course.”

6.3 School of Nursing

Page 329, 2003-2004 Calendar, under the heading Course List, insert the following sentence at the end of the course description for “**N 4734. Clinical Focus: Contemporary Mental Health Nursing.**”:

“The course also covers Mental Health issues and clinical process skills that nurses working in any clinical area or in nursing management would find useful.”

6.4 Faculty of Education

Page 271, 2003-2004 Calendar, under the heading Waiver of Regulations of the Faculty of Education, under the subheading Course Descriptions, delete the title, “3290. Psychological Tests and Measurements (PE, IS, ISI)” and replace with the following:

“3290. Identifying Learner Diversity within a Context of Culture.”

Page 263, 2003-2004 Calendar, under the heading Bachelor of Education, (Intermediate/Secondary), under the subheading Admission, clause 3), delete “Computer Science” from the list of courses.

Page 263, 2003-2004 Calendar, under the heading Regulations for the Degree of Bachelor of Education, (Intermediate/Secondary), 3) a) (ii), delete “4168” from the list of courses.

Page 264, 2003-2004 Calendar, under the heading Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education, under the subheading Admission, 3) delete “Computer Science” from the list of courses.

Page 265, 2003-2004 Calendar, under the heading Regulations for the Degree of Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education, 3)a) (ii) delete “4168” from the list of courses.

Page 271, 2003-2004 Calendar, under the heading, Course Descriptions,

delete the course, “**4168. The Teaching of Computer Science in the Intermediate and Secondary School (IS, ISI, ME, NS)**” in its entirety.

6.5 Marine Institute

The Marine Institute, in conjunction with the Calendar Review Committee, has revised the Fisheries and Marine Institute entry in the Calendar in its entirety, as follows:

Page 71, 2003-2004 Calendar, under the heading Fisheries and Marine Institute, delete the entire section immediately preceding the heading, Fisheries and Marine Institute Advisory Committee.

Page 71, 2003-2004 Calendar, move the section entitled Fisheries and Marine Institute Advisory Committee in its entirety, and place it immediately following the last entry under the heading Academic Personnel, School of Maritime Studies (as approved at a meeting of Senate held on September 9, 2003).

Page 73, 2003-2004 Calendar, move the section entitled Affiliated Applied Research and Development Centres in its entirety up to and including Fisheries Conservation Chair, to page 32, and place each centre appropriately in alphabetical order under the heading, Special Divisions.

Page 75, 2003-2004 Calendar, delete the remaining entry for the Fisheries and Marine Institute in its entirety and replace with the following:

“FISHERIES AND MARINE INSTITUTE

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ADMINISTRATIVE PERSONNEL

Executive Director

O'Reilly, L.G. B.A., B.A. (Ed.), Grad. Dip., M.Ed. *Memorial*

Institute Registrar

Murray, M., B.Comm. *Memorial*

Head, School of Fisheries

Bonnell, D., B.Sc. *Memorial*

Director, Division of Corporate Services and External Affairs

Clarke, K.G., B.Sc., M.B.A. *Memorial*

Head, School of Maritime Studies

Dutton, C., B.Eng., B.Voc.Ed., M.Eng. *Memorial*, P.Eng.

Head, Division of Degree Studies and Research

Fisher, P., B.Sc., P.G.C.E., Ac. Dip. Ed. *London*, M.Ed. *Memorial*, Ph.D. *Leeds*

Guidance/Student Affairs Officer

Green, G., B.A., M.Ed. *Memorial*

Division of Corporate Services and External Affairs

Director

Clarke, K.G., B.Sc., M.B.A. *Memorial*

Manager, Marketing and Business Development

Anderson, G.L., B.A. *Memorial*

Education Marketing Coordinator

Brockerville, B., B.Comm. *Memorial*, C.M.A.

Manager, Finance and Contracts

Christian-Quinton, F., B.Comm. *Memorial*

Manager, Human Resources

Fowler, M., B.Comm. *Memorial*

Manager, Cafeteria

Garnier, M., B.Sc. *St.F.X.*

Planning Analyst

Goudie, N., B.B.A. *Memorial*

Captain, Training and Research Vessel

Hammett, B., O.N.1.

Purchasing Officer

Kavanagh, S.

Manager, Marine and Technical Services

Sheehan, B.

Educational Marketing Coordinator

Thornhill, K.A., B.Comm. *Memorial*

Division of Degree Studies and Research

Head

Fisher, P., B.Sc., P.G.C.E., Ac. Dip. Ed. *London*, M.Ed. *Memorial*, Ph.D.
Leeds

Coordinator of Advanced Programs

Smith, N., B.Comm. *Memorial*

Institute Librarian

Taylor-Harding, D., B.Sc. *Guelph*, M.L.S. *Western Ontario*

Manager, Computer Services and Learning Technologies

Wells, R.S., B.Sc.(Hons.) *Memorial*

MI International

Director

Chislett, B., B.P.Ed., B.A., B.Ed. *Memorial*, M.A. *East Anglia*

International Program Officer

McIntyre, M., B.Sc. *Aberdeen*, M.B.A. *Memorial*

School of Fisheries

Head

Bonnell, D., B.Sc. *Memorial*

Coordinator of Programs

Hayter, R., Dip.Tech. *College of Fisheries*

Director, Centre for Aquaculture and Seafood Development

Allen, N., B.Sc. *Leicester*, M.Sc. *Plymouth*

Director, Centre for Sustainable Aquatic Resources

Blackwood, G., B.Sc.(Hons), M.A. *Memorial*

Project Coordinator

Hunt, B.A., B.Comm. *Memorial*, C.M.A

School of Maritime Studies

Head

Dutton, C., B.Eng., B.Voc.Ed., M.Eng. *Memorial*, P.Eng.

Director, Centre for Marine Simulation

Patterson, A., Dip.N.Sci. *Canadian Coastguard College*, Master Mariner

Director, Office of Applied Research in Marine Operations

Pawlowski, J., M.Sc.(Eng.), Dr.Tech.Sc. *Gdansk Technical University*

Coordinator of Offshore Training

Pearson, P., B.Eng. *Memorial*, M.Sc. *London*

Director, Offshore Safety and Survival Centre

Rutherford, R., H.N.D., B.M.S. *Memorial*, Marine Engineer (1st Class),
P.Eng., M.I.Mar.E., C.I.Mar.E.

Coordinator of Programs

Tucker, J., B.Eng., M.Eng. *Memorial*, P.Eng.

ACADEMIC PERSONNEL

Division of Degree Studies and Research

Fisher, P., B.Sc., P.G.C.E., Ac.Dip.Ed. *London*, M.Ed. *Memorial*, Ph.D. *Leeds*; Director

Breen, C.A., B.Sc., M.Ed. *Memorial*
Fleet, B., RN, B.Voc.Ed., M.Ed. *Memorial*
Howse, D.M., B.Sc., B.Ed., M.Ed. *Memorial*
Janes, H., B.A., B.Ed., M.Ed. *Memorial*
Kerr, B.D., B.Sc.F. *New Brunswick*, M.Ed. *Memorial*
Molloy, C., B.A. *Memorial*
Taylor-Harding, D., B.Sc. *Guelph*, M.L.S. *Western Ontario*

School of Fisheries

Bonnell, D., B.Sc. *Memorial*; Head

Barker, D., B.Sc., M.Sc. *Memorial*, Ph.D. *Dalhousie*
Blunden, J., B.Sc., B.Ed. *Memorial*, Adv.Dip. *Marine Institute*, MMS
Memorial
Brett, P.
Coady, D., Dip.Tech. *College of Fisheries*, B.Voc.Ed. *Memorial*
Couturier, C.F., B.Sc. *New Brunswick*, M.Sc. *Dalhousie*
Durnford, E., Dip.Tech. *Marine Institute*, B.Sc., M.Sc. *Memorial*
Gibbons, R.C., B.A. *Memorial*, F.M.2
Grant, S., B.Sc. *Wilfid Lauier*, M.Sc. *Trent*, Ph.D. *Memorial*
Halfyard, L., B.Sc., B.Ed., *Memorial*, M.Sc. *Sterling*
Harris, C., B.Eng., M.Eng. *Memorial*
Hayter, R., Dip.Tech. *College of Fisheries*
Hyde, R., Voc.Cert. *Marine Institute*, B.Voc.Ed. *Memorial*
Kennedy, E., Dip.Tech. *College of Fisheries*
Mackey, J., B.Th. *Laval*, M.Ed. *Loyola*
Manuel, H.
Mercer, K.B., B.Sc. *Dalhousie*, Grad.Dip.Tech. *Marine Institute*
Morris, P.
Negrijn, J., Master Home Trade
¹Parsons, J., B.Sc. *Guelph*, M.Sc. *Acadia*, Ph.D. *Guelph*
²Patel, J., B.Sc., M.Sc. *M.S.U. India*, M.S. *TWV Texas*, Ph.D. *SUNY New York*
Perry, R.A., B.A. (Ed.), B.A., M.A., M.B.A. *Memorial*
Pippy, M.C., B.Sc., B.Ed. *Memorial*
Rideout, K.
Whiteway, G., Dip.Tech. *College of Fisheries*, B.Sc. *Memorial*

¹*Cross appointment with Department of Biology*

²*On Leave*

School of Maritime Studies

Dutton, C. R., B.Eng., B.Voc.Ed., M.Eng. *Memorial*, P.Eng.; Head

¹Aboulazm, A.F., B.Sc.(Hons) *Alexandria*, B.Voc.Ed., Dip.Ad.Ed., M.Eng., Ph.D. *Memorial*, P.Eng.

Anstey, F.A., B.A., B.Voc.Ed., Cert.Bus.Adm. *Memorial*, O.N.1

Azizan, H., Dip.Tech. *College of Fisheries*, B.Voc.Ed., M.Ed. *Memorial*, MMM. *Dalhousie*, Master Mariner

Baker, K., Dip.Tech. *College of Fisheries*

Bartlett, D.

Blackmore, D., Dip.Voc.Ed. *Memorial*, F.M.1

Boone, J.

Brake, D. J., B.Sc., B.Ed., B.A. *Memorial*

Brazil, D., Dip.Tech. *Marine Institute*, O.N.1

Brown, E., B.A., B.Ed., M.Ed. *Memorial*

Buckingham, J., B.Eng. *Memorial*

Budgell, D.

Bussey, S., B.A.(Ed.) *Memorial*

Callahan, C., B.Sc., B.Ed. *Memorial*

Campbell, S., O.N.1

Chaulk, C., B.Eng. *Memorial*

Clarke, C., Dip.Tech. *Marine Institute*, O.N.1

Courage, A., B.Eng., M.A.Sc. *Memorial*, P.Eng.

Cross, J., B.Sc. *Queens*, M.Eng. *Memorial*, O.N.2., P.Eng.

Curtis, S. L., Dip.Tech. *Marine Institute*, C.E.T.

Dalley, C., B.A., B.A.(Ed.), M.Ed. *Memorial*

Dohey, P.

Dunphy, L., Cert.Adv. Instructor Methodology *St. Mary's*

Enanny, F. A., B.Sc. *Ain Shams Univ. Egypt*, B.Voc.Ed. *Memorial*, M.S. (Eng.) *U.C. Berkeley*, P.Eng.

Ennis, J., Master Mariner

Fiander, G. R., Dip.Tech. *Marine Institute*, O.N.1

Francis, D., Marine Engineer (2nd Class)

Freeborn, A., First Class Engineer

Halfyard, P., Cert.Tech. *College of Fisheries*, Cert.Tech. *Marine Institute*

Harnum, C.

Harvey, G.

Hillier, P.

¹Howse, D., B.Eng., M.Eng., M.B.A. *Memorial*, P.Eng

Hye-Knudsen, K., Master Mariner

Kavanagh, T. J., Dip.Tech. *Marine Institute*, Marine Engineer, (3rd class motor, 4th class steam)

Keating, J., Dip.Tech. *College of Fisheries*, B.Voc.Ed. *Memorial*, Master Mariner

Kettle, M.

Kiash, R. S., Dip.Voc.Ed. *Memorial*, C.Eng., Marine Engineer (1st class motor & steam), C.E.T.

Lye, E., B.P.E., B.Ed., M.P.E. *Memorial*

Marshall, M.

Martin, J., Master Mariner

Matchem, J. D., B.Eng. *Memorial*, E.I.T., P.Eng.

Matchim, R., B.Eng. *Memorial*

Meadus, F.

Mercer, R., Dip.Voc.Ed., M.Ed. *Memorial*, Master Mariner

Norman, W., Dip.Tech. *College of Fisheries*, B.Voc.Ed. *Memorial*, M.Sc. *World Maritime University*, Master Mariner

O'Keefe, T.

Parsons, C., O.N.2

Parsons, J.R., Dip.Tech. *College of Fisheries*, C.Voc.Ed., B.M.S. *Memorial*, Master Mariner

Parsons, K., B.Sc., B.A., B.Ed., Dip. Adult Ed. *Memorial*

Pearson, P., B.Eng. *Memorial*, M.Sc. *London*

Pelley, J., B.Sc., B.Ed. *Memorial*

Penney, D. S., B.Sc. *Iona*, B.Ed., M.Ed. *Memorial*

Pritchett, S., Dip.Tech. *College of Fisheries*

Rehner, D., B.A. *College of Wooster*, M.A. *Bryn Mawr College*, B.Ed. *Memorial*

Roche, K.

Ryan, J. C., B.P.E., B.Ed., B.Sc., B.A. *Memorial*

Ryan, P.

Saric, M.

Shanahan, J., Dip.Voc.Ed. *Memorial*, Marine Engineer (4th class)

Sheppard, S.

Short, C., Master Mariner

Simoes Ré, J.M., Capitaó Marinha Mercante, Curso Elementar de Pilotagem, *Lisbon Nautical School*, Curso Complementar de Pilotagem, *Infante D. Henrique Nautical College*, Lisbon, Portugal, Master Mariner

Skinner, D., Dip.Tech. *College of Fisheries*, Master Mariner

Small, G., B.Sc., B.Ed. *Memorial*

Snow, R., N.F.P.A., Level 3 Firefighting Cert., *University of Oklahoma*

St. Croix, J., B.A., B.Ed., M.Ed., M.A. *Memorial*

Stone, B.

Taylor, B., Master Mariner

Tucker, J., B.Eng., M.Eng. *Memorial*, P.Eng.

Walsh, R., Marine Engineer (2nd class)

Ward, E., Dip.Voc.Ed. *Memorial*
Wareham, M.
Wheeler, F., Master Mariner
White, A.
Whitelaw, B., B.Sc. *Newcastle*
Woolridge, B.
Woolridge, D., B.Sc., B.Ed. *Memorial*
Young, J., Voc.Cert. *Marine Institute*
Zaki, A., Dip.Tech. *College of Fisheries*, Master Mariner
¹On Leave

Students must meet all regulations of the Fisheries and Marine Institute in addition to those stated in the University's general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

1 SCHOOL DESCRIPTION

The Fisheries and Marine Institute was established in 1964 as the College of Fisheries, Navigation, Marine Engineering and Electronics. It became affiliated with the University in 1992 and since then has continued to grow as a world-class centre of marine technology and education. The official name is the Fisheries and Marine Institute of Memorial University of Newfoundland, but it is commonly known as the Marine Institute.

The main campus of the Marine Institute overlooks the city of St. John's from within Pippy Park, which has extensive hiking trails and recreational facilities. This building houses a flume tank, a seafood processing plant, freshwater aquaculture research and development facilities, and extensive marine simulation facilities. The Dr. C. R. Barrett Library, located at this campus, houses one of Canada's largest marine-related collections. In addition, the Institute manages the Offshore Safety and Survival Centre in Foxtrap and Stephenville and a marine base on the south side of St. John's harbour.

The Marine Institute provides a full range of programs focusing on fisheries and marine science and technology. In addition to undergraduate and graduate degrees, the Institute offers advanced diplomas, diplomas of technology, and technical and vocational certificates. The Institute also runs a variety of short courses and industrial response programs. Many courses, including most courses in degree programs, are available through the Marine Institute Learning Services (MILES) website, www.mi.mun.ca/miles.

All programs and courses are designed to provide students with the knowledge and skills required for success in the workforce. The Institute

seeks the advice of industrial program advisory committees in the ongoing development and review of programs. Whenever appropriate, it submits programs for national accreditation, providing graduates with mobility in professional employment.

2 DESCRIPTION OF DEGREE PROGRAMS

For information about non-degree programs and upgrading opportunities, refer to the Marine Institute's website www.mi.mun.ca.

2.1 General Degrees

The Marine Institute offers two undergraduate degrees. For specific details on each degree refer to the appropriate **DEGREE PROGRAM REGULATIONS**. The courses in the programs are available on campus and by distance delivery.

2.1.1 Bachelor of Maritime Studies

The Bachelor of Maritime Studies program prepares graduates for career advancement in the maritime and related industries. It is designed for students who have graduated from accredited, or Transport Canada approved, diploma of technology programs in the marine fields. The program is also available to professional mariners and certain Canadian Forces (Naval Operations) personnel. Courses in the program provide the student with an introduction to human resource and business management concepts, and the social contexts in which their careers will be based. The program consists of 39 credit hours in addition to work completed in a diploma program and can be taken on a full-time or part-time basis.

2.1.2 Bachelor of Technology

The Bachelor of Technology program prepares graduates for career advancement in health science technology or engineering/applied science technology industries. It is designed for students who have graduated from an accredited diploma of technology program that is applicable to one of two optional areas. Courses in the program provide the student with an introduction to human resource and business management concepts, and the social contexts in which their careers will be based. The program consists of 39 credit hours in addition to work completed in a diploma program and can be taken on a full-time or part-time basis.

The optional areas are:

- Engineering and Applied Science Technology Option, which is normally chosen by students who have an engineering/applied science technology diploma.
- Health Sciences Technology Option, which is normally chosen by students who have a health sciences technology diploma.

3 ADMISSION/READMISSION REQUIREMENTS FOR DEGREE PROGRAMS

In addition to meeting the admission/readmission requirements for the

University students must also meet the admission/readmission requirements for the Marine Institute. See **UNIVERSITY REGULATIONS ADMISSION/READMISSION TO THE UNIVERSITY (UNDERGRADUATE)** for University requirements.

3.1 General Information

- 3.1.1** All application forms must be submitted to the Admissions Office, Office of the Registrar, Memorial University of Newfoundland, St. John's, NL, A1C 5S7.
- 3.1.2** Students who want to take University courses concurrently with diploma courses should check either Pre-Bachelor of Maritime Studies or Pre-Bachelor of Technology on the Memorial University of Newfoundland application for admission/readmission form.

3.2 Admission Requirements for Applicants to the Bachelor of Maritime Studies Program

- 3.2.1** An applicant must submit a form for admission/readmission to the Bachelor of Maritime Studies program along with the form for admission/readmission to the University. This application must include all required documentation including proof of the diploma or certificate required for admission in a specific category.

3.2.2 Categories for admission to the Bachelor of Maritime Studies

Applicants must meet the general admission/readmission requirements of the University and be eligible for admission to the Bachelor of Maritime Studies program in one of the following categories:

- Category A: applicants holding a diploma from the Marine Institute in nautical science or marine engineering technology,
- Category B: applicants holding a diploma from the Marine Institute in naval architecture technology or marine engineering systems design technology,
- Category C: applicants holding a Canadian Technology Accreditation Board accredited, or Transport Canada approved, diploma in marine engineering technology or nautical science,
- Category D: applicants holding a Canadian or non-Canadian diploma similar to an accredited or Transport Canada approved Marine Institute diploma in nautical science, marine engineering technology, naval architecture technology or marine engineering systems design technology,
- Category E: applicants holding a Transport Canada Certificate of Competency at the Master Mariner or Engineering First Class level or equivalent,
- Category F: applicants holding a Transport Canada Certificate of Competency at the Master, Intermediate Voyage level or equivalent,
- Category G: applicants holding a Transport Canada Certificate of Competency at the Engineering Second Class level or equivalent,
- Category H: applicants who have Canadian Forces (Naval Operations) training of a type and at a level acceptable to the

Admissions Committee.

3.2.3 Applications to the program will be considered by the appropriate admissions committee(s).

3.3 Admission Requirements for Applicants to the Bachelor of Technology Program

3.3.1 An applicant must submit a form for admission/readmission to the Bachelor of Technology program along with the form for admission/readmission to the University. This application must include all required documentation including proof of the diploma or certificate required for admission in a specific category.

3.3.2 Categories for admission to the Bachelor of Technology Program
Applicants must meet the regular admission requirements of the University and be eligible for admission in one of the following categories:

- Category A: applicants holding a diploma of technology accredited by the Canadian Medical Association (CMA),
- Category B: applicants holding a diploma of technology in engineering/applied science technology accredited by the Canadian Technology Accreditation Board (CTAB),
- Category C: applicants holding a diploma of technology comparable to a Marine Institute or College of the North Atlantic three-year CTAB accredited diploma in engineering/applied science technology,
- Category D: applicants holding a diploma of technology comparable to a College of the North Atlantic three-year CMA accredited diploma.

3.3.3 Upon acceptance into the program, students will be admitted to one of the two options: the Engineering and Applied Science Technology Option or the Health Sciences Technology Option. Students may be permitted to change their option with the approval of the Marine Institute Committee on Undergraduate Studies.

3.3.4 Applications to the program will be considered by the appropriate admissions committee(s).

4 DEGREE PROGRAM REGULATIONS

4.1 Bachelor Of Maritime Studies

- Students must complete 39 credit hours in addition to the work which was required under their category of admission.
- The required courses are listed in **Table 1 Bachelor of Maritime Studies - Course Requirements for all Students**. These courses may have prerequisites which have to be met.
- In addition to the required courses, students must take two courses from the electives list. The elective courses are listed in **Table 1 Bachelor of Maritime Studies - Course Requirements for all Students**. These courses may have prerequisites which have to be met.
- Students admitted to the program in certain categories may have to complete additional requirements. These are listed in **Table 2**

Bachelor of Maritime Studies - Additional Requirements Based on Category of Admission.

- When transfer credit has been granted for a course(s) taken to satisfy the requirements for admission, students must take an additional elective(s) in the Bachelor of Maritime Studies program.
- To meet the academic requirements for a Bachelor of Maritime Studies a candidate shall successfully complete the following program with a minimum overall average of 60% and a minimum of 50% in each course required for the degree.

Table 1
Bachelor of Maritime Studies - Course Requirements for all Students

Required Courses	Electives
Business 2102 or 5301 or 7302 Business 3320 Business 4000 or Political Science 3210 Business 4320 or Psychology 3501 Economics 2010 Economics 2020 English - 6 credit hours at the 1000 level MSTM 4001 MSTM 4100 MSTM 4200 Statistics 2500 or 2550	Business 1201 Business 4000 Business 6320 or Economics 3360 Economics 3030 Engineering 4102 or MSTM 4020 Geography 3510 or 3400 or History 3690* Political Science 3210 Political Science 4200 Psychology 2120 or Sociology 3120 or 2120 Sociology/Anthropology 3317 or 4091 Statistics 2501

*Inactive course

Table 2
Bachelor of Maritime Studies - Additional Requirements Based on Category of Admission

Category of Admission	Additional Requirements
A: Students holding a diploma from the Marine Institute in nautical science or marine engineering technology.	No additional requirements.
B: Students holding a diploma from the Marine Institute in naval architecture technology or marine engineering systems design technology.	No additional requirements, with the possible exception of course prerequisites.
C: Students holding a Canadian Technology Accreditation Board accredited, or Transport Canada approved, diploma in marine engineering technology or nautical science.	No additional requirements, with the possible exception of course prerequisites.
D: Students holding a Canadian or non-Canadian diploma similar to an accredited or Transport Canada approved Marine Institute diploma in nautical science, marine engineering technology, naval architecture technology or marine engineering systems design technology.	May have to complete additional requirements.
E: Students holding a Transport Canada Certificate of Competency at the Master Mariner or Engineering First Class level or equivalent.	No additional requirements, with the possible exception of course prerequisites.
F: Students holding a Transport Canada Certificate of Competency at the Master, Intermediate Voyage level or equivalent.	Business 2000 Either: Transport Canada - Ship management 093 (Master Mariner) or Both of: Marine Institute courses Business and Organizational Management 3114 and Marine Institute course Business and Organizational Management 3204. The prerequisite(s) for Business and Organizational Management 3204 will be waived.
G: Students holding a Transport Canada Certificate of Competency at the Engineering Second Class level or equivalent.	Business 2000 Transport Canada - Applied Mechanics (1 st Class) Transport Canada - Thermodynamics (1 st Class) Transport Canada - Electrotechnology (1 st Class)
H: Students who have Canadian Forces (Naval Operations) training of a type and at a level acceptable to the Admissions Committee.	May have to complete additional requirements.

4.2 Bachelor Of Technology Degree

- Students must complete 39 credit hours in addition to the work which was required under their category of admission.
- The required and elective courses are listed in **Table 3 Bachelor of Technology - Engineering and Applied Science Technology Option** and **Table 4 Bachelor of Technology - Health Science Technology Option**. These courses may have prerequisites which have to be met.
- When transfer credit has been granted for a course(s) taken to satisfy the requirements for admission, students must take an additional elective(s) in the Bachelor of Technology program.
- To meet the academic requirements for a Bachelor of Technology a candidate shall successfully complete the program with a minimum overall average of 60% and a minimum of 50% in each course required for the degree.

4.2.1 Bachelor of Technology - Engineering and Applied Science Technology Option

- Students must take 39 credit hours with 24 credit hours from the required courses and 15 credit hours from the electives.
- At least one elective must be chosen from each of the groups A and B.

Table 3
Bachelor of Technology - Engineering and Applied Science Technology Option

Required Courses	Group A Electives	Group B Electives
Business 1000 Business 2301 Engineering 4102 or MSTM 4020 English - 6 credit hours at the 1000 level MSTM 4010 MSTM 4100 MSTM 4200 Statistics 2500	Business 1201 Business 1600 Business 2102 Business 3320 Business 3700 Business 4000 Business 4320 or Psychology 3501 Business 6320 Economics 3360	Economics 2010 Economics 2020 Economics 3080 Geography 4410 Religious Studies 3830 Sociology 2120 Sociology/Anthropology 3220 Sociology/Anthropology 3317 Sociology/Anthropology 4091 Sociology 4107 or Women's Studies 4107 Sociology 4206

4.2.2 Bachelor of Technology - Health Sciences Technology Option

- Students must take 39 credit hours with 21 credit hours from the required courses and 18 credit hours from the electives.
- At least one elective must be chosen from each of the groups A, B, and C.

Table 4
Bachelor of Technology - Health Science Technology Option

Required Courses	Group A Electives	Group B Electives	Group C Electives
Business 1000 Business 2301 English - 6 credit hours at the 1000 level MSTM 4100 MSTM 4200 Nursing 4002 Nursing 5210	Business 1201 Business 1600 Business 2102 Business 3320 Business 3700 Business 4000 Business 4320 or Psychology 3501 Business 6320 Economics 3360	Economics 2010 Economics 2020 Economics 3080 Geography 4410 Religious Studies 3830 Sociology 2120 Sociology/Anthropology 3220 Sociology/Anthropology 3317 Sociology/Anthropology 4091 Sociology 4107 or Women's Studies 4107 Sociology 4206	Biology 2040 or 2041 Nursing 3023 Nursing 4701 Psychology 2010 or 2011 or 2012 Psychology 2800 Sociology 2110

5 WAIVER OF DEGREE PROGRAM REGULATIONS

Students requesting waiver of University academic regulations should refer to **UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) - WAIVER OF REGULATIONS**. Every student also has the right to request waiver of degree program regulations.

5.1 General Information

- The Marine Institute reserves the right in special circumstances to modify, alter, or waive any Marine Institute regulation in its application to individual students where merit and equity so warrant, in the judgement of the Committee on Undergraduate Studies of the Marine Institute.
- Students requesting a waiver of a Marine Institute regulation must submit their request in writing to the head of the program who will

forward a recommendation to the Chair of the Committee on Undergraduate Studies of the Marine Institute. Medical and/or other documentation to substantiate the request must be provided.

- Any waiver granted does not reduce the total number of credit hours required for the degree.

6 APPEAL OF REGULATIONS

Any student whose request for waiver of Marine Institute regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - GENERAL ACADEMIC REGULATIONS (UNDERGRADUATE) - APPEAL OF REGULATIONS**.

7 MARITIME STUDIES/TECHNOLOGY MANAGEMENT (MSTM) COURSES AVAILABLE TO STUDENTS NOT ENROLLED IN A DEGREE PROGRAM OFFERED BY THE MARINE INSTITUTE

Students not in a degree program offered by the Marine Institute may register in courses from the following list if space is available.

- 4030 Technology in the Human Context
- 4040 Project Management for Technologists
- 4050 Introduction to Quality Management

8 COURSE DESCRIPTIONS

All courses of the Marine Institute degree programs are designated as MSTM (Maritime Studies/Technology Management).

4001 Ship Operations Management (formerly Maritime Studies 4001) provides students with a conceptual understanding of owning or managing a marine shipping company from a Canadian perspective. Topics covered include basic trade theory, the structure of marine transportation companies, marine markets, charter parties, risk management, ship finance, budgeting, labour relations, crewing, ship construction and repair, an introduction to marine insurance, and current specialty topics in the shipping business. There will be assignments and major projects associated with this course.
CR: the former Engineering 8065; Maritime Studies 4001

4010 Assessment and Implementation of Technology (formerly Technology 4010) examines the effects of technology on the physical, socio-economic, historic, cultural and aesthetic environments. The course also addresses relevant legislation, the generation and evaluation of project/product alternatives, and the prediction, verification and mitigation of technological effects.
CR: Technology 4010

4020 Economic Management for Technologists (formerly Technology 4020) provides an introduction to the economics of technological projects. Students will study the mathematics of money, cost composition, and project evaluation, including cost comparison. They will also learn to analyze projects for decision making, including risk assessment and replacement

analysis. In addition, they will learn to use suitable criteria for project selection, and to conduct sensitivity analysis.

CR: Engineering 4102; Technology 4020

4030 Technology in the Human Context (formerly Technology 4030) examines technology in the historical context and technology in the modern era. Students will discuss human insights, innovation, the interactions between development and technology transfer, ethics and professionalism and how to develop a technology value system.

CR: Technology 4030

4040 Project Management for Technologists (formerly Technology 4040) will introduce the student to the interdisciplinary field of project management. The course covers the interpersonal skills necessary to successfully lead or work effectively within a project team as well as providing an overview of certain planning and scheduling tools and techniques necessary for the planning and monitoring of projects.

CR: Technology 4040

4050 Introduction to Quality Management (formerly Technology 4050) will provide students with an understanding of the philosophy and concepts involved in the total quality approach to quality management. The course covers the various tools and techniques used in quality management as well as providing an overview of the role of management.

CR: Technology 4050

4100 Technical Project and Report I (formerly Maritime Studies 4000 and Technology 4000) requires the student to identify a research topic in a specialty area, write a concept paper and develop a proposal to be carried out in MSTM 4200. In addition, the course offers an opportunity to improve time management, critical thinking, project management, problem solving, and reading/writing skills as related to the research process.

CH: 1

CR: Maritime Studies 4000; Technology 4000

4200 Technical Project and Report II (formerly Maritime Studies 4000 and Technology 4000) provides a link between the other courses of the program and the technical component from the diploma program. Students will carry out an in-depth study of the topic identified in MSTM 4100. Students will fully document and present their findings through the writing of a formal technical report.

CH: 2

CR: Maritime Studies 4000; Technology 4000

PR: MSTM 4100"

6.6 Department of French and Spanish

Page 163, 2003-2004 Calendar, under the heading French and Spanish, under the subheading French Minor Program, delete the first paragraph in its entirety and replace with the following:

“Students who choose French as their Minor must complete at least 24 credit hours in French and must include either French 3100 or French 3101.

Delete the Note immediately preceding the heading, Honours Degree in French” in its entirety and replace with the following:

“NOTES: 1) No more than 6 credit hours at the 1000 level may be used to satisfy the minimum requirement of the Minor.

2) No more than 6 transfer credit hours may be used to satisfy the minimum requirement of the Minor.”

7. Report of the Committee on Senate Elections

A memorandum dated 16 May 2003 has been received from the Committee on Senate Elections advising that the following people have been elected to the Senate:

<u>Constituency</u>	<u>Name</u>
Marine Institute	Captain Wayne Norman (2006) Captain John Ennis (2004)

8. Report of the Committee on Committees

When Senate, at a meeting held on April 8, 2003, approved the Membership and Terms of Reference for the ad hoc Committee on Senate Reform, the graduate representative had not been determined. Mr. Jamie Baker has now been nominated by the Graduate Students’ Union to be the graduate student representative on the ad hoc Committee and the Committee on Committees is recommending Mr. Jamie Baker’s appointment.

The motion, moved by Dr. Gosine, and seconded by Dr. Wolinetz, that Mr. Jamie Baker be appointed as the Graduate Students’ Union representative on the ad hoc Committee on Senate Reform, carried.

Dr. Gosine presented the Report of the Committee and moved that the following appointments to standing committees as recommended by the Committee be approved. The motion was seconded by Dr. Wolinetz and carried.

University Planning and Budget Committee
Les MacFadden (Undergraduate Student)

Senate Committee on Undergraduate Studies

Thom Duggan (Undergraduate Student)

Advisory Committee on the Bookstore

Jacklyn Adams (Undergraduate Student)

Advisory Committee on the Library

Thom Duggan (Undergraduate Student)

Advisory Committee on the University Timetable

Travis Wooley (Undergraduate Student)

Committee on Copyright

Brian Harvey (Undergraduate Student)

Committee on Educational Technology

Neil McKay (Undergraduate Student)

Committee on Honorary Degrees and Ceremonial

Rosa Magalios (Undergraduate Student)

Committee on Research

Thom Duggan (Undergraduate Student)

Committee on Course Evaluations

Lee Burry (Undergraduate Student)

Jamie Baker (Graduate Student)

Committee on Senate Elections

Jessica Dwyer (Undergraduate Student)

Committee on Undergraduate Scholarships and Financial Aid

Luke Gaulton (Undergraduate Student)

Since no GSU nominations were received for the University Planning and Budget Committee, Advisory Committee on the Bookstore, Advisory Committee on the University Timetable, Committee on Committees, Committee on Copyright, and the Committee on Honorary Degrees and Ceremonial, these seats will remain vacant.

9. Report of the Committee on Educational Technology

In an interim report to Senate, Dr. Elizabeth Murphy, Chair of the Senate Committee on Education Technology advises that the Committee recently conducted a survey related to the document “The Use of the Web for Teaching and Learning”. A final report, including the results of the survey, will be presented to Senate later in the Fall.

10. Report of the Committee on Course Evaluations

Dr. Meisen welcomed Professor Shane O’Dea, Chair of the Committee on Course Evaluations and invited him to introduce the report of the Committee.

Professor O’Dea presented the report of the Committee drawing the attention of Senate to the following recommendations:

Recommendation 1: That publication of CEQ results begin with the Spring and Summer 2003 sessions.

It was moved by Dr. Adamec and seconded by Dr. Quaicoe and carried that Recommendation 1 be approved.

Recommendation 2: That instructors with less than two years teaching experience at Memorial University be given the opportunity to opt out of publication of their CEQ results until they have reached that level of experience.

Several Senators noted that students should be entitled to review the CEQ results of all instructors, including those new to Memorial.

Following a lengthy discussion, it was moved by Mr. Baker, seconded by Dr. Wilson that Recommendation 2 be approved. However, when put to a vote, the motion was defeated.

11. Remarks from the Chair - Questions/Comments from Senators

The following is a summary of the remarks made by the Chair:

- The President reported that the start of semester enrollment for Fall 2003 shows a grand total of 17,177 students, representing an increase of 3.9% over the start of the semester in Fall 2002. There has been a significant increase in Graduate student enrollment with almost 2,000 students enrolled representing a 9.3% increase over last year. Sir Wilfred Grenfell College shows an 8.8% increase in enrollment, while the undergraduate enrollment at the St. John’s campus shows an increase of 2.6%. The President expressed a warm thank you to all those who contributed to this successful recruitment effort.
- The President reported that a faculty orientation was recently held for approximately 40 new faculty members. He encouraged Senators to seek out new faculty members to mentor them and welcome them to the Memorial University community.
- Dr. Meisen reported that he had addressed high school principals and administrators in Terra Nova on May 22, 2003 on the topic “Building Learning Communities”. He noted that he had raised the awareness of the group that the University is moving forward and is there to serve our communities.
- The President noted that on June 11, 2003, he had attended the Montreal Showcase on Health Research where he, the Premier, and other representatives from the Province had met with members of the

pharmaceutical industry and granting councils.

- The President visited Labrador on July 15, 2003 for an alumni/parents/students and friends event. He reported that it was a successful event and students have high expectations of their stay at the University. He also reported that alumni have a great interest in continuing their education at Memorial through both distance education and on-site programs. He noted that the Faculty of Education had been thanked for developing special cohort programs in Labrador.
- The President noted that in anticipation of the forthcoming Provincial and Federal elections, it is important that the University position itself vis a vis elected members of both government levels. In June, Jack Harris visited Memorial and was given an in-depth view of the University. The same invitation was extended to the Leader of the Opposition. Dr. Meisen emphasized that the position adopted by the University is neutral and apolitical, but noted the importance of providing information about the University to elected officials.
- In June 2003, \$2M was awarded for a Husky Energy Chair in Oil and Gas Research, the first endowed Chair at the University.
- The President reported that the University had enjoyed a number of successes over the Summer, highlighting in particular the following:
 - › \$600,000 has been received from the Counselling Foundation of Canada to support the University's efforts in counseling students.
 - › The Shad Valley program was hosted, for the first time, by Memorial University in mid-July. Approximately 50 students, most of whom were from Ontario and Quebec, worked on various projects and stayed at the University residences. The students also had the opportunity to visit Sir Wilfred Grenfell College. The program was successful and students reported that they were pleased with their experience both in the University and in the Community. The President offered thanks to those who made the Shad Valley program possible noting that this is a great opportunity for us as these students serve as ambassadors for the University.
 - › The Tuckamore Festival held during the summer was a successful event.
 - › A workshop on Financial Mathematics was held in August with visiting scholars and students from Europe. Dr. Meisen thanked the Faculty of Science and in particular, the Department of Mathematics for hosting such a successful event.

- › A large number of projects will be funded once again this year by the Atlantic Innovation Fund. An announcement will be made in the near future with respect to the amount of funding the University will receive.

In response to a question from Dr. Adamec, the President reported that in the Fall 2003, 131 students from Ontario are enrolled at the University compared to 85 in the Fall of 2002.

Dr. Adamec commented that Senate, in recent years, had expressed grave concerns over an anticipated decline in enrollment and noted that enrollment had not only been maintained, but had increased. He then moved that Senate recognize, with gratitude, all those who had a part in the recruitment effort. The motion was seconded by Dr. Thompson and carried.

12. ADJOURNMENT

The meeting adjourned at 5:25 p.m.

CHAIRMAN

ACTING SECRETARY