

University of Waterloo

SENATE

Notice of Meeting

Date: Monday, January 19, 2004

Time: 4:30 p.m.

Place: Needles Hall, Room 3004

<i>AGENDA</i>	<i>PAGE</i>	<i>ACTION</i>
1. Presentation: Graduate Studies	2	Information
2. Approval of the December 15, 2003 Minutes [attached]		Decision
3. Business Arising from the Minutes		
a. Minimum Threshold for Scholarships for Entering Students	2, Oral	Information/ Discussion
4. Report from the University Librarian	2, A1	Information
5. Report of the Chair		
a. Recognition and Commendation	2, A2	Information
b. Environmental Scan		
6. Report of the Vice-President, Academic & Provost	2, Oral	Information
7. Report of the Vice-President, University Research [deferred from the December meeting of Senate]	2, dist. with Dec. agenda	Information
8. Report of the Vice-President, University Relations	2, Oral	Information
9. Reports from Senate Committees and Councils		
a. Scholarships & Student Aid Committee	2, A3-A13	Information
b. Undergraduate Council	2, A14-A22	Decision/Information
10. Reports from the Faculties [no report from the Faculty of Applied Health Sciences] and Renison College	2, A23-A34	Information
11. Other Business		
a. Appointment to the Distinguished Teacher Award Committee	2, A35	Decision
b. Senate Vacancies	A36	Information
12. Confidential Session		
a. Approval of the December 15, 2003 Minutes		Decision
b. Report from the Dean of Environmental Studies Nominating Committee	Oral	Decision

LC/rah
January 6, 2004

Lois Claxton
Secretary of the University

Business Arising Future Agenda Items:
ELPE Program [June 16, 2003]
Diplomas and Certificate Programs [May 20, 2003]
Centre for Business, Entrepreneurship & Technology - MBET / BET(Dip) [May 20, 2003]

The Senate Executive Committee met on January 5, 2004 and wishes to report as follows:

1. **PRESENTATION: GRADUATE STUDIES.** The Dean of Graduate Studies and the Provost will present this item.
3. **BUSINESS ARISING FROM THE MINUTES**
 - a. **Minimum Threshold for Scholarships for Entering Students.** Follow-up from December Senate.
4. **REPORT OF THE UNIVERSITY LIBRARIAN**

Mark Haslett will present this item.
5. **REPORT OF THE CHAIR**

The report will consist of the customary "Recognition and Commendation" list and a brief "Environmental Scan."
6. **REPORT OF THE VICE-PRESIDENT, ACADEMIC & PROVOST**

The Vice-President will report as appropriate.
7. **REPORT OF THE VICE-PRESIDENT, UNIVERSITY RESEARCH**

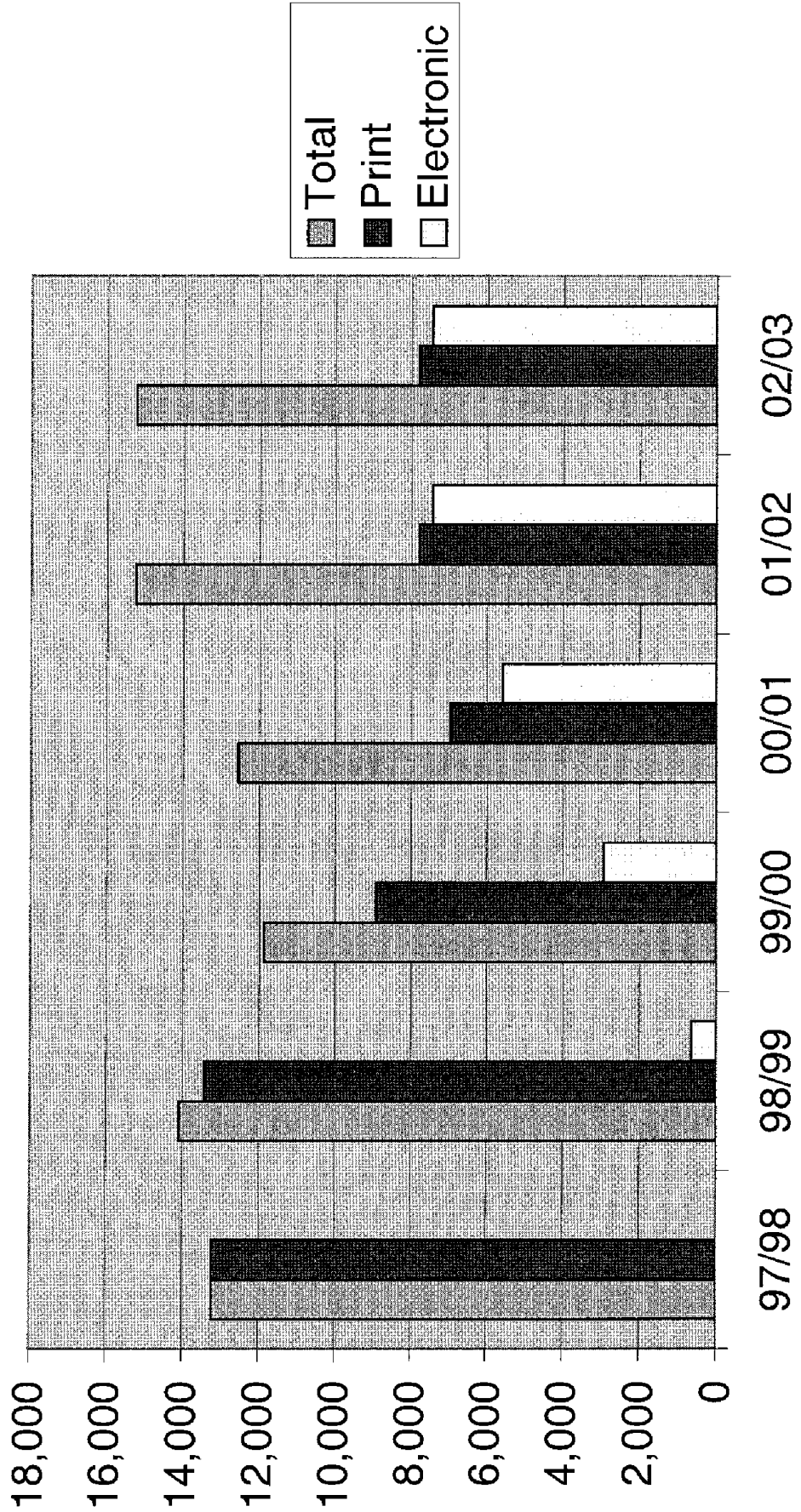
Deferred from the December meeting of Senate, the Vice-President, University Research will report on research intensity.
8. **REPORT OF THE VICE-PRESIDENT, UNIVERSITY RELATIONS**

The Vice-President will report as appropriate.
9. **REPORTS FROM SENATE COMMITTEES AND COUNCILS**

The Committee agreed to forward the reports from Scholarships & Student Aid and Undergraduate Council to Senate for approval and information as appropriate.
10. **REPORTS FROM THE FACULTIES and RENISON COLLEGE**

There was no report from the Faculty of Applied Health Sciences; the Committee agreed to forward these reports to Senate for information.
11. **OTHER BUSINESS**
 - a. **Appointment to the Distinguished Teacher Award Committee.** The Committee agreed to recommend this appointment to Senate for approval.
12. **CONFIDENTIAL SESSION**
 - a. **Report from the Dean of Environmental Studies Committee.** The Nominating Committee expects to report to Senate.

Number of Print and Electronic Serial Titles Received



Content, Connected, Collaboration

University of Waterloo

RECOGNITION AND COMMENDATION

Report to Senate -- January 19, 2004

Distinguished Professor Emeritus:

Roger Downer, a zoologist and former Vice-President, University Relations at Waterloo, has been awarded an honorary doctor of laws degree from Queen's University in Belfast. After working for UW for 27 years, he took early retirement in 1996 and moved to Bangkok, Thailand where he served as President and Chief Executive Officer of the Asian Institute of Technology. He then went on to become President and Vice-Chancellor of the University of Limerick, a position he still holds.

University of Waterloo

SENATE SCHOLARSHIPS & STUDENT AID COMMITTEE

Report to Senate -- January 19, 2004

The Senate Scholarships & Student Aid Committee forwards the following items to Senate for information [*further details may be obtained from the Committee Secretary, x 5924*]:

New Scholarships/Awards/Bursaries for Calendar Publication 2004/2005

ENTRANCE SCHOLARSHIPS:

James Downey Entrance Scholarship in Arts

A scholarship, valued at \$1,500, is awarded annually to an outstanding student entering full-time studies in the Faculty of Arts who shows an interest in pursuing a degree in English.

Harrison McCain Foundation

This award, valued at \$13,500 over four years, is provided to an outstanding student entering Year One of any Honours program at the University of Waterloo. Students whose home province is New Brunswick, Newfoundland, Nova Scotia or Prince Edward Island are eligible to apply. Candidates must have a minimum admission average of 80%, a demonstrated financial need and have demonstrated leadership qualities as evidenced by involvement in extracurricular and volunteer activities. Interested candidates will apply using the Harrison McCain Foundation Entrance Award application by July 25th.

Margaret Elizabeth Keith Entrance Scholarship for the Study of the Humanities

Scholarships, valued at up to \$10,000 over four years, are presented annually to one or more outstanding students entering Year One of Honours Arts, Honours Arts & Business or Applied Studies in the Faculty of Arts at the University of Waterloo. The recipient will be selected on the basis of academic performance in secondary school, comments made on the Admission Information Form and a demonstrated commitment to studies in the humanities as indicated on the admission application. Continuance of the award beyond Year One is dependant on the student maintaining an 83% overall average and continued enrolment in one of the humanities major programs in Years Two, Three and Four.

McPhie Family Architecture Scholarship

An annual scholarship, valued at \$2,500, will be given to a first-year undergraduate student admitted to the Architecture program who has achieved the highest admission score combination as assessed by the School of Architecture. No application is required. The scholarship is funded by Doug McPhie, BES, '78.

Planning Alumni Entrance Scholarships

Several scholarships, valued at \$1,000 each, are awarded annually to outstanding students from Ontario entering Year One of Planning. The scholarships are funded by the Waterloo Planning Alumni Committee of Toronto.

Purdy Crawford Research Internship

A fund has been established by Purdy Crawford, a member of the University Board of Governors, to provide a guaranteed on-campus research internship co-op work term. A research internship valued at \$10,000 will be provided to an outstanding student entering first year of any co-op program who is interested in completing a research work term. The work term is jointly funded by this fund and the University of Waterloo. No application is necessary.

Sony of Canada Science Foundation Entrance Scholarships

Two scholarships, valued at \$1,500 each, have been established by Sony of Canada to celebrate the 35th Anniversary of the arrival of the first Sony product in Canada. The scholarships are made annually to outstanding students entering Year One in each of Computer Engineering and Software Engineering. The scholarships are awarded in conjunction with the Faculty of Engineering and Software Engineering Entrance Scholarship programs. An application is not required, however, candidates are strongly advised to write the Euclid Mathematics Contest.

UPPER-YEAR SCHOLARSHIPS:

J.P. Bickell Foundation Mining Scholarships

Several scholarships, valued at a minimum of \$2,000 each, are provided to undergraduate students in mining related programs, including environmental geosciences, geological sciences, earth sciences and mining engineering. To be eligible, students must be enrolled in second year or above, have an overall average of 75% or above, and must demonstrate their interest in the mining industry. Interested students should submit an application by October 15th.

John Horton Pragma Undergraduate Award

This award, valued at \$100, is given to an outstanding undergraduate student citizen who has significantly contributed to the well being of fellow students and to the School of Planning. The recipient also receives a book and a plaque.

NZ/C Actuarial Science Scholarship (NZ/C stands for New Zealand/Canada)

Two annual scholarships, valued at \$1,250 each, will be given to outstanding third- or fourth-year undergraduate students enrolled in the Actuarial Science program in the Faculty of Mathematics at the University of Waterloo. Eligible candidates must demonstrate their interest in achieving their FCIA designation by having passed at least two of the professional examinations set by the Society of Actuaries or the Casualty Actuarial Society. Additional criteria include marks achieved at the University of Waterloo and active participation and leadership in volunteer activities of a civic nature. Interested students should submit an application to the Student Awards Office by May 31st each year. This scholarship is funded by a graduate of the Actuarial Science program.

Federation of Chinese Canadian Professionals (FCCP) (Ontario) Education Foundation Entrance Scholarship in Accounting

One scholarship, valued at \$1,000, is presented annually to an outstanding student entering year one of the Accountancy Studies program in the Faculty of Arts, Mathematics or Science. This award is sponsored by the Federation of Chinese Canadian Professionals (Ontario) Education Foundation.

UW/FIRST Mechatronics Engineering Scholarship

In partnership with FIRST (For Inspiration and Recognition of Science and Technology) and the Departments of Mechanical and Electrical & Computer Engineering, the University of Waterloo is pleased to award one \$5,000 non-renewable entrance scholarship. The scholarship is to recognize and reward students whose experience with FIRST has inspired an interest in pursuing an engineering education. The scholarship is presented annually to an outstanding student entering year one of the Mechatronics Engineering program at the University of Waterloo who was active on a FIRST team in the final year of high school. Selection is based on academic excellence and extracurricular achievement as assessed through the Admission Information Form (AIF). Students are asked to emphasize their participation on a FIRST team in the AIF and provide a reference letter from an adult mentor or teacher involved in the

student's FIRST team. In addition, students must send an e-mail indicating their desire to be considered along with their name and OUAC application number to first.scholarship@mechatronics.uwaterloo.ca prior to March 31st of their graduating year. More information on FIRST is accessible at www.usfirst.org.

Cancelled Awards

Beckman - Coulter Biochemistry Work-Term Report Award

Three awards, valued at \$100 each, to second-, third- or fourth-year Biochemistry students.

Reason: company has discontinued funding of this program

Beynon Memorial Humanitarian Award

This \$400 writing award is given each term to an undergraduate Engineering student who works alone, or to a two-student team which must include at least one undergraduate Engineering student. The award is given for the best essay published that term in *The Iron Warrior*. The essay topic, set by the Centre for Society, Technology & Values, is announced early in each term in *The Iron Warrior* and on posters, along with award regulations. Students on study and work terms are encouraged to participate. The award is intended to encourage students to think and write about the humanitarian and social implications of technology and engineering.

Reason: award inactive for several years

Mrs. Umra Vati Goyal Memorial Scholarship

One award, valued at \$1,000, is given to an outstanding student entering Year 1 of Engineering. For details, see Faculty of Engineering Entrance Scholarships. The award is made possible through a donation from Mr. Amrit Goyal, in loving memory of his mother.

Reason: donor has retired and is not able to support

Robert Haworth Scholarship

The Grand River Conservation Foundation has established the Robert Haworth Scholarship valued up to \$1,500. This scholarship is open to full-time students who have completed their third year or sixth term of an honours program in a watershed university or college. The program of study must be in resource management related to Park Planning and Management, Recreation, Natural Heritage and Planning, Outdoor Education or similar fields of study. Applicants must be Canadian citizens or Permanent Residents. Applications are available in the Student Awards Office and must be submitted during the 3B term or the third year of the Regular program by May 31 each year.

Reason: UW no longer involved in selection; considered an external award

S.C. Johnson & Son, Ltd. Environmental Scholarship

This \$1,500 scholarship has been jointly established by S.C. Johnson & Son, Ltd., and The Grand River Conservation Foundation in recognition of the Company's ongoing commitment to helping protect the environment. The scholarship is open to full-time students who have completed their third year or sixth term of an Honours program related to the environmental sciences with emphasis on Chemistry and/or Chemical Engineering. Applicants must be Canadian citizens or permanent residents. Application forms are available in the Student Awards Office and must be submitted during the 3B term or the third year of the Regular program prior to May 31 each year.

Reason: UW no longer involved in selection; considered an external award

JTI-Macdonald Corp. Accounting Entrance Scholarship

This scholarship, valued at \$4,000 over four years, is awarded annually to an outstanding student entering Year One of Honours Accountancy Studies in the Faculty of Arts. Continuance of the award beyond Year One is dependent on the student maintaining an 80% overall average in Honours Accountancy Studies.

Reason: company has discontinued funding of this program

Microsoft Corporation Award

Three awards of \$100 each to third- or fourth-year Computer Science students.

Reason: company has discontinued funding of this program

Microsoft Corporation Merit Scholarships

Ten annual scholarships, valued at \$2,500, have been established by Microsoft Corporation to recognize outstanding academic achievement among full-time undergraduate students entering Year Two or above in computer-driven areas of study. One scholarship will be allocated to students in each of the following programs: Kinesiology - Ergonomics Option; Health Studies & Gerontology - Health Informatics Option; English - Rhetoric & Professional Writing; Applied Studies; Systems Design Engineering; Software Engineering; Environmental Studies (2); Computational Science; and Science & Business. No application is necessary.

Reason: end of this three-year commitment

Nortel Networks Undergraduate Scholarships

Nortel Networks has established several scholarships for students entering Year Two, Three and Four of Electrical and Computer Engineering. The scholarships, valued at \$3,500 each, are awarded in recognition of academic excellence, an interest and understanding of the broader view of technology, an entrepreneurial spirit and excellent interpersonal skills. Students who have achieved the minimum required academic standing will be invited to apply following completion of first, second and third year.

Reason: company has discontinued funding of this program

Nortel Networks Undergraduate Scholarships

Fifteen scholarships, each with a value of \$14,000 over four years, are awarded annually to incoming undergraduate students enrolled in Computer Science.

Reason: company has discontinued funding of this program

Marcel Pequegnat Scholarship

A \$1,200 scholarship may be awarded to a full-time student who has completed the third year of study in resource management or a related field and who intends to continue in this program. Foundation applications are available in the Student Awards Office and must be submitted during the 3B term or the third year of the Regular program by May 31 each year.

Reason: UW no longer involved in selection; considered an external award

PMC-Sierra Incorporated Scholarship in Engineering

One scholarship, valued at \$1,500, is presented annually to the student in Honours Co-op Electrical Engineering who has achieved the highest 3A and 3B combined average and is entering fourth-year. No application is necessary.

Reason: company has suspended funding.

Women's Association of UW Award of Merit

The Women's Association of UW is a non-profit organization dedicated to the collegial support and advancement of women at the University of Waterloo. Recipients of the Women's Association of UW

Award of Merit may be in any faculty and will have completed their first year in full- or part-time study. The award is limited to regular students (vs. co-op) only, in satisfactory academic standing. The award is intended to respond to financial need experienced by students who have faced or are facing particular challenges in their university lives such as sole-support parent or other responsibilities, disabilities, illness or personal trauma. Men or women may apply using the general bursary application form available from the Student Awards Office, outlining in their application how they portray tenacity in the face of personal challenges.

Reason: Association is no longer active

2003 Entrance Scholarships Available, Offered and Accepted

See Attachment #1.

2003 UW Bursary Program Summary (Entrance and Upper-year)

Attachment #2 provides a summary of the bursary program established per the Minister of Education and Training to assist undergraduate students if personal and family resources are not adequate to meet the cost of education-related expenses (neither the admission average nor the Faculty in which the student is enrolled is a factor when making bursary decisions). Students who did not apply for entrance bursaries when they joined UW can apply for subsequent bursary support once they arrive.

Senate Scholarship Fund Matching Value (2002-2003)

The matching value was 1:1. If donations to the Senate Scholarship Fund, the UW Retiree's Fund, CUPE Local 793's Bursary Fund and all undergraduate and graduate endowments exceeds \$160K, the match is reduced proportionately. Student Awards tracks donations to each of these funds. Once the matching value has been determined, the match is made immediately on donations to the Senate Scholarship Fund, the Retiree's Fund and CUPE's Bursary; for endowments, the match is made on payout of the award.

OSAP 2003/04 Update

See Attachment #3.

Campaign Waterloo – Scholarship Campaign Gifts

From May 1, 2000 to present, \$18.2M has been raised from all sources for graduate and undergraduate scholarships.

2003/04 Entrance Scholarship Summary

Name & Total Value of Award	+ Source of Funding	# of awards available	**Total money available	# of awards accepted	**Total money spent
<i>Faculty of Applied Health Sciences</i>					
Lyle S. Hallman Entrance Scholarship - \$2,500	E	3	\$7,500	3	\$7,500
Dean's Entrance Scholarship- \$1,000	O	26	\$26,000	26	\$26,000
Health Studies Entrance Scholarship - \$1,000	S	6	\$6,000	5	\$5,000
Kinesiology Entrance Scholarship- \$1,000	S	17	\$17,000	12	\$12,000
Recreation & Leisure Studies Entrance Schol - \$1,000	S	5	\$5,000	5	\$5,000
2003 Totals		57	\$61,500	51	\$55,500
2002 Totals		56	\$60,500	54	\$58,500
2001 Totals		50	\$50,000	43	\$43,000
<i>Faculty of Arts</i>					
Lloyd Carr-Harris Foundation Schol - \$16,000/4yrs	A	1	\$4,000	1	\$4,000
J.S. Minas Entrance Scholarship - \$5,000/4yrs	E	1	\$2,000	1	\$2,000
Brian Hendley Entrance Scholarships - \$3,000	E	1	\$3,000	1	\$3,000
Arts Alumni Entrance Scholarship - \$3,000/2yrs	E	10	\$20,000	9	\$18,000
Catherine E.B. Hanna Entrance Scholarship- \$2,000	E	1	\$2,000	1	\$2,000
Mary Gerhardstein Entrance Schol - \$1,500	O	1	\$1,500	1	\$1,500
Lithgow Entrance Scholarship - \$1,000	E	3	\$3,000	3	\$3,000
Arts Faculty Entrance Scholarship - \$1,000 *	S/O	77	\$77,000	77	\$77,000
Arts Faculty Entrance Scholarship - \$500 *	S/O	108	\$54,000	108	\$54,000
Robin K. Banks/Pacioli Entrance Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
Morley Lemon Family Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
Muriel Shepherd Entrance Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
National Trust Accounting Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
William J. Schlatter Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
School of Accountancy Fellowships - \$6,000/4yrs	O	10	\$10,000	13	\$13,000
Mary Rosenthal Entrance Scholarship - \$500	E	2	\$1,000	2	\$1,000
2003 Totals		220	\$182,500	222	\$183,500
2002 Totals		137	\$153,500	172	\$187,500
2001 Totals		127	\$143,500	135	\$151,500

* perfect congruence between awards available and accepted is the result of offering the awards to students based on certain requirements; there was no limit on the number of awards available.

+ Source of Funding:

A= Annual Donation; E=Endowment;

O=Other, eg. Faculty funds; S=Senate Scholarship Fund

**Value refers to amount student receives in Year One only.

2003/04 Entrance Scholarship Summary

Name & Total Value of Award	*Source of Funding	# of awards available	**Total money available	# of awards accepted	**Total money spent
<i>Faculty of Engineering</i>					
Nortel Networks Scholarships - \$14,000/4yrs	E	4	\$14,000	4	\$14,000
Colonel Hugh Heasley Scholarship - \$6,500/4yrs	S/E/O	1	\$3,500	1	\$3,500
Arthur F. Church Mechanical Scholarship - \$5,000	E	2	\$10,000	2	\$10,000
UW/FIRST Mechatronics Scholarship - \$5,000	O	1	\$5,000	1	\$5,000
Nortel Networks Scholarships - \$3,500	E	23	\$80,500	23	\$80,500
Chandrashekar Shad Valley Memorial - \$3,500	E	1	\$3,500	1	\$3,500
R & E Madter Entrance Scholarship - \$3,500	E	1	\$3,500	1	\$3,500
Shell Canada Entrance Scholarship - \$3,500	E	1	\$3,500	1	\$3,500
Engineering Entrance Scholarship - \$3,500	E/O	65	\$227,500	55	\$192,500
Leslie Klein Entrance Scholarship - \$3,000	E	1	\$3,000	1	\$3,000
O.P.E.F. Scholarship - \$1,500	A	2	\$3,000	2	\$3,000
Sony of Canada Scholarship - \$1,500	A	1	\$1,500	1	\$1,500
Motorola Engineering Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
Carl A. Pollock Engineering Scholarship - \$1,000	E	5	\$5,000	0	\$0
Canadian General Tower Scholarship - \$500	E	1	\$500	1	\$500
2003 Totals		110	\$365,000	95	\$325,000
2002 Totals		105	\$347,000	93	\$307,500
2001 Totals		104	\$313,150	94	\$284,150
<i>Faculty of Environmental Studies</i>					
E. Alarie Memorial Scholarship - \$1,200	E	1	\$1,200	1	\$1,200
Canadian General Tower Scholarship - \$500	E	1	\$500	1	\$500
Environment & Business Entrance Scholarship - \$1,000	O	1	\$1,000	1	\$1,000
Environment & Resource Studies Entrance Schol - \$1,000	S	5	\$5,000	3	\$3,000
Geography Entrance Scholarship - \$1,000	S	9	\$9,000	16	\$16,000
Planning Entrance Scholarship - \$1,000	S	3	\$3,000	2	\$2,000
Planning Alumni Entrance Scholarship - \$1,000	O	5	\$5,000	5	\$5,000
K.C. Lee Entrance Scholarship \$1,000	A	1	\$1,000	1	\$1,000
Peter Nash Entrance Scholarship - \$400	E	1	\$400	1	\$400
2003 Totals		27	\$26,100	31	\$30,100
2002 Totals		27	\$20,500	19	\$18,500
2001 Totals		31	\$32,000	31	\$32,000

*Source of Funding:

A= Annual Donation; E=Endowment;

O=Other, eg. Faculty funds; S=Senate Scholarship Fund

**Value refers to amount student receives in Year One only.

2003/04 Entrance Scholarship Summary

Name & Total Value of Award	*Source of Funding	# of awards available	**Total money available	# of awards accepted	**Total money spent
<i>Faculty of Mathematics</i>					
Microsoft National Scholarship - \$25,000/4yrs	A	1	\$6,250	1	\$6,250
CIBC National Scholarship - \$25,000/4yrs	A	1	\$6,250	1	\$6,250
Canada Life Financial National Schol - \$18,000/4yrs	A	2	\$9,000	2	\$9,000
Manulife Financial National Schol - \$18,000/4yrs	A	2	\$9,000	2	\$9,000
J.W. Graham National Scholarship - \$25,000/4yrs	E	1	\$6,250	1	\$6,250
W.T. Tutte National Scholarship - \$18,000/4yrs	E	1	\$4,500	1	\$4,500
R.G. Stanton National Scholarship - \$25,000/4yrs	E	1	\$6,250	1	\$6,250
K.D. Fryer National Scholarship - \$20,000/4yrs	E	1	\$5,000	1	\$5,000
R.G. Scoins National Scholarship - \$18,000/4yrs	E	1	\$4,500	1	\$4,500
R.G. Dunkley National Scholarship - \$18,000/4yrs	E	1	\$4,500	1	\$4,500
E. Anderson National Scholarship - \$18,000/4yrs	E	1	\$4,500	1	\$4,500
Nortel Undergraduate Scholarship - \$14,000/4yrs	E	5	\$17,500	5	\$17,500
Rene Descartes National Scholarship - \$14,000/4yrs	E	5	\$17,500	5	\$17,500
Rene Descartes Scholarship - \$9,000/4yrs	E	15	\$45,000	12	\$36,000
Rene Descartes Scholarship - \$6,000/4yrs	E	25	\$75,000	20	\$60,000
Rene Descartes Scholarship - \$3,000	E	35	\$105,000	21	\$63,000
Columbia International College Scholarship - \$5,000/4yrs	A	1	\$2,000	1	\$2,000
R & E Madter Entrance Scholarship - \$3,500	E	1	\$3,500	1	\$3,500
GVMA Entrance Scholarship - \$6,000	E	1	\$3,000	1	\$3,000
Marsh Memorial Scholarship - \$4,000	A	1	\$4,000	1	\$4,000
Bill Harvie Scholarship/Fellowship - \$5,000/4yrs	E	1	\$1,000	1	\$1,000
UW-Columbia International College Scholarship - \$3,000	E	3	\$9,000	3	\$9,000
Faculty of Mathematics Alumni Award - \$2,500	A	2	\$5,000	2	\$5,000
Art Headlam Entrance Scholarship - \$2,000	E	1	\$2,000	1	\$2,000
Fed. of Chinese Cnd Professionals Fdtn Schol - \$1,000	A	1	\$1,000	0	\$0
Friar Luca Pacioli Entrance Scholarship - \$1,000	E	1	\$1,000	0	\$0
John Matthew Scholarship - \$1,000	A	1	\$1,000	0	\$0
2003 Totals		112	\$358,500	87	\$289,500
2002 Totals		109	\$423,750	93	\$366,750
2001 Totals		86	\$232,000	77	\$219,000

*Source of Funding:

A= Annual Donation; E=Endowment;

O=Other, eg. Faculty funds; S=Senate Scholarship Fund

**Value refers to amount student receives in Year One only.

2003/04 Entrance Scholarship Summary

Name & Total Value of Award	*Source of Funding	# of awards available	**Total money available	# of awards accepted	**Total money spent
Faculty of Science					
Earth Sciences Scholarship of Excellence	O	1	\$5,000	1	\$5,000
Physics - Sir Isaac Newton Scholarship- \$4,000	S/O	3	\$12,000	3	\$12,000
Physics - Sir Isaac Newton Scholarship- \$1,000	S/O	3	\$3,000	3	\$3,000
Merrill Lynch Scholarship - \$2,500	E	1	\$2,500	1	\$2,500
Chemistry Entrance Scholarship - \$8,000/4yrs	S/O	5	\$10,000	5	\$10,000
Kay & Harry McLeod Entrance Scholarship - \$1,500	E	1	\$1,500	1	\$1,500
Canadian General Tower Scholarship - \$500	E	1	\$500	1	\$500
Science Faculty Entrance Scholarship - \$1,000	O	31	\$31,000	30	\$30,000
Earth Sciences Entrance Scholarship - \$1,000	S	7	\$7,000	6	\$6,000
2003 Totals		53	\$72,500	51	\$70,500
2002 Totals		59	\$74,000	46	\$58,000
2001 Totals		107	\$123,500	92	\$111,500
Software Engineering					
Scotiabank Software Eng Ent Schol - \$20,000/4yrs	E	1	\$5,000	1	\$5,000
Nortel Networks Scholarship - \$14,000/4yrs	E	2	\$7,000	2	\$7,000
Software Engineering Entrance Scholarship - \$3,500	O	8	\$28,000	8	\$28,000
Nortel Networks Scholarship - \$3,500	A	5	\$17,500	5	\$17,500
Sony of Canada Scholarship - \$1,500	A	1	\$1,500	1	\$1,500
2003 Totals		17	\$59,000	17	\$59,000
2002 Totals		17	\$60,500	17	\$60,500
2001 Totals		21	\$67,500	21	\$67,500
Any Faculty					
UW/Canadian Merit Schol Foundation - \$24,000/4yrs	O	2	\$12,000	2	\$12,000
Waterloo County Special Scholarship- \$5,000/3yrs	S/E/O	19	\$57,000	19	\$57,000
UW Alumni Scholarship - \$4,800/4yrs	E	3	\$3,600	3	\$3,600
Waterloo County Entrance Scholarship- \$3,000	S/E/O	19	\$57,000	19	\$57,000
Dixon Waterloo Region Entrance Schol - \$2,500	E	2	\$5,000	2	\$5,000
Hong Kong Alumni Entrance Scholarship - \$1,000	E	1	\$1,000	1	\$1,000
Sullivan Entrance Scholarship - \$1,000	A	1	\$1,000	1	\$1,000
2003 Totals		47	\$136,600	47	\$136,600
2002 Totals		46	\$171,900	44	\$166,700
2001 Totals		44	\$128,100	41	\$119,100
2003 Overall Totals		643	\$1,261,700	601	\$1,149,700
2002 Overall Totals		556	\$1,311,650	538	\$1,223,950
2001 Overall Totals		570	\$1,089,750	534	\$1,027,750

*Source of Funding:

A= Annual Donation; E=Endowment;

O=Other, eg. Faculty funds; S=Senate Scholarship Fund

**Value refers to amount student

receives in Year One only. A11

2003/04 University of Waterloo
Entrance Bursary Program Summary

Faculty	Number Awarded	Value Awarded (Fall & Winter payments only)
Applied Health Sciences	69	\$155,500
Arts	141	\$311,725
Engineering	182	\$299,500
Environmental Studies	38	\$87,400
Independent Studies	0	\$0
Mathematics	160	\$349,100
Science	146	\$356,000
Software Engineering	19	\$44,250
Total	755	\$1,603,475

Bursaries were awarded based on financial need as determined from a special application form that students completed in April.

Neither the admission average nor the Faculty was a factor when making bursary decisions.

Bursary values ranged from \$500 to \$3,000.

OSAP 2003/04 Update

Applications & Statistics

Applications process for applicants was up and running on the Ministry website by early April 2003.

The following spreadsheet provides both current and historical statistics regarding OSAP application and funding for University of Waterloo.

Year	Preliminary/ Final	Total # of Applications	% Increase/ Decrease	Total # of Students Aided	% Increase/ Decrease	Total Value OSAP	Average Aid/student
95/96	F	6936		5226		\$32,088,818	\$6,140
96/97	F	6590	-5%	5169	-1%	\$34,466,346	\$6,668
97/98	F	6585	0%	4911	-5%	\$32,941,016	\$6,708
98/99	F	6099	-7%	4164	-15%	\$29,983,307	\$7,201
99/00	F	6464	6%	4354	-5%	\$30,911,277	\$7,100
00/01	F	6493	0%	4065	-7%	\$28,867,282	\$7,101
01/02	F	6605	2%	3871	-5%	\$28,224,771	\$7,291
02/03	F	7173	9%	4160	8%	\$31,525,255	\$7,578
03/04	P	6826		4249		\$30,410,647	\$7,157

We have, to date, reached 95% of the applications received during the 2002/03 OSAP year. We estimate that applications this year may reach 7600 which will be a 6% increase over last year. Note that the number of students receiving aid has increased this year by 2% although the dollars to these students has decreased.

UNIVERSITY OF WATERLOO

SENATE UNDERGRADUATE COUNCIL

Report to Senate – January 19, 2004

Senate Undergraduate Council met on December 9, 2003 and agreed to forward the following items to Senate for approval and information, as indicated below [*further details may be obtained from the Secretary, ext. 5924*].

FOR APPROVAL

NEW PLANS

Faculties of Applied Health Sciences and Arts

Recreation & Leisure Studies/Drama & Speech Communication

Drama & Speech Communication/Recreation & Leisure Studies

In response to student requests, Council recommends the creation of a joint honours degree between Recreation & Leisure Studies and Speech Communication with either plan as the home department with the requirements outlined below.

Eligibility for graduation with a Joint Honours Recreation & Leisure Studies and Speech Communication (Regular or Co-op) requires successful completion of a minimum of 20.0 academic course units including the following requirements. In practice, depending on the number of units required by both majors and the number of electives that students choose to take, more than 20 units may be necessary for graduation.

1. at least 9.0 units in Recreation courses including:
 - 4.0 units of Required Recreation courses: REC

100, 101, 205, 220, 270, 371 and two 400-level REC courses;

- 5.0 units of Recreation electives;
2. 1.5 units of non-department required courses including:
 - CS 100, PSYCH 101 and SOC 101;
3. 2.0 units of non-department restricted electives;
4. 7.0 units as required by Speech Communication;
5. open electives to total 2.0 units;
6. a cumulative overall average of at least 65%, a cumulative Recreation average of at least 70%, and a cumulative Speech Communication average of at least 75%.

Honours Recreation & Business and Speech Communication (Regular and Co-op)

Honours Speech Communication and Recreation & Business (Regular and Co-op)

In response to student requests, Council recommends the creation of a joint honours degree between Recreation & Business and Speech Communication with either plan as the home department with the requirements outlined below.

Eligibility for graduation with a Joint Honours Recreation & Business and Speech Communication (Regular or Co-op) requires successful completion of a minimum of 22.0 academic course units including the following requirements. In practice, depending on the number of units required by both majors and the number of electives that students choose to take, more than 22.0 units may be necessary for graduation.

1. at least 9.0 units in Recreation courses including:
 - 3.5 units of Required Recreation courses: REC 100, 101, 205, 220, 270, 371, and one 400-level REC course;
 - 1.0 units from REC 215, 310, 314 or 316;
 - 0.5 units from REC 413 or 415;
 - 4.0 units of Recreation electives;

2. 4.0 units of non-department required courses including:
 - CS 100, PSYCH 101, SOC 101, AFM 101 (121), and BUS 121 (WLU);
 - AFM 131 or BUS 111 (WLU);
 - BUS 352 (WLU) or ECON 344;
 - BUS 288 (formerly 388, WLU) or PSYCH 338 or MSCI 211;
3. 2.0 units of non-department restricted electives;
4. 7.0 units as required by Speech Communication;
5. a cumulative overall average of at least 65%, a cumulative Recreation average of at least 70%, and a cumulative Speech Communication average of at least 75%.

Therapeutic Recreation and Psychology

Council recommends the addition of a joint honours degree between Therapeutic Recreation and Psychology with either plan as the home department with the requirements outlined below. A joint honours Recreation and Leisure Studies and Psychology agreement already exists. This motion expands the existing agreement to include students in the new Therapeutic Recreation plan.

Eligibility for graduation with a Joint Honours Therapeutic Recreation and Psychology (Regular or Co-op) requires successful completion of a minimum of 22.0 academic course units including the following requirements. In practice, depending on the number of units required by both majors and the number of electives that students choose to take, more than 22.0 units may be necessary for graduation.

1. at least 9.0 units in Recreation courses including:
 - 6.0 units of Required Recreation courses: REC 100, 101, 205, 220, 251, 252, 270, 350, 356, 371, 455 and one 400-level REC course;
 - 3.0 units of Recreation electives;
2. 1.5 units of non-department required courses including:
 - CS 100, SOC 101, and one of BIOL 201 or BIOL 273 or KIN 100 or SCI 351 or SCI 352;
3. 1.5 units of non-department restricted electives;
4. 2.0 units of therapeutic recreation electives;
5. 8.0 units as required by Psychology;
6. a cumulative overall average of at least 65%, a cumulative Recreation average of at least 70%, and a cumulative Psychology average of at least 75%.

Faculty of Mathematics

University of Waterloo/Wilfrid Laurier University

Honours Computer Science and Business Administration Double Degree (Co-op only)

The existing BMath/BBA has proved very popular with students and has attracted numerous well-qualified applicants. It is not hard to understand its popularity because it allows a student to obtain two degrees after only ten terms of (very intensive) study, plus Co-op work terms. Combining Computer Science with Business in a similar way will provide yet another unique opportunity for students at Waterloo. It is likely that the BCS/BBA will attract highly qualified applicants, including some who would choose to study Computer Science elsewhere if only given the opportunity to pursue a BMath(CS) or BCS at Waterloo. Since the intention is not to increase the number of students admitted to Computer Science, but rather to reallocate part of the existing intake numbers to BCS/BBA, this new double-degree plan is likely to increase the overall quality of students admitted to Computer Science.

The plan is patterned after the existing BMath/BBA, using the same set of courses from WLU and the requirements for a BCS degree. One new course is being proposed, CO 252, to provide the necessary mathematical background for some of the Business courses. BMath/BBA students obtain this material through a combination of courses, which cannot be accommodated along with the required Business and Computer Science courses. This plan will also follow the recently approved set of co-op sequences for the BMath/BBA.

Council recommends approval of this new double degree effective September 1, 2004 (pending WLU approval) with the following preamble and plan requirements:

This Double Degree academic plan is administered jointly by the Faculty of Mathematics at the University of Waterloo (UW) and the School of Business and Economics at Wilfrid Laurier University (WLU). It is a restricted-enrolment plan with admission normally limited to Year 1 in a Fall (September-to-December) term.

Students who successfully complete this plan will be eligible to attend both universities' convocation ceremonies and be awarded a UW Honours BCS degree and a WLU Honours BBA degree at the

respective convocations. Students may register for this plan at either university. The academic component is the same, regardless of where students are formally registered, but students participate in the Co-op process at their home institution. Thus, the degree attached to each student's registered university is a Co-op degree, with the other university's degree being a Regular one.

This academic plan cannot be combined with any other major, minor or option designation. It requires a minimum of 10 full-time academic study terms and successful completion of a minimum of 52 one-term courses (26 units). These 52 courses (26 units) must include 24 (12 units) specified mathematics and computer science courses taken at UW and 24 (12 units) specified business-related courses at WLU. The remaining 4 (2 units) elective courses are normally (except with approval from both universities) required to be from disciplines outside the areas of study offered by UW's Faculty of Mathematics and outside those offered by WLU's Department of Business. Students are free to choose their elective courses from either university.

For UW-registered students, the Co-op process involves four (or five at a student's discretion) Co-op work terms intermixed with the ten study terms. The first of these work terms occurs during the May-to-August period between the second and third study terms. The complete sequencing of terms for UW-registered students is listed on page 5:4. Students in this plan will be required to pay 6 co-op fees, which are usually assessed in the first three years of study.

For WLU-registered students, the Co-op process involves three (or four at a student's discretion) Co-op work terms intermixed with the ten study terms. The first of these work terms occurs during the January-to-April period between the third and fourth study terms. The earlier May-to-August period between the second and third study terms is an "off" term (where students are on their own for the term, similar to Regular students). With the exception of this first May-to-August term being an "off" term rather than a Co-op work term, the term sequencing for WLU-registered students is identical to the one for UW-registered students.

With the sequencing of study terms and work terms indicated above, the normal duration for this plan is four and two-thirds calendar years (or five calendar years at a student's discretion). Only under especially mitigating circumstances, and with the approval of both universities, can the term sequencing attached to the Double Degree plan be altered, and such instances will usually result in a delay (possibly as much as one calendar year) of graduation date.

All Double Degree plan students, regardless of their home university affiliation, are required to satisfy all term-by-term progression requirements of both UW's Faculty of Mathematics and WLU's School of Business and Economics to remain eligible to continue in the plan, and to meet all graduation requirements of both institutions to be eligible for the two degrees. More specifically, students must ensure that their course selection each term, their academic performance level, and their academic conduct in general, comply with all the policies, procedures, regulations and requirements of both universities. Failure to do so will normally result in students being required to withdraw from the Double Degree plan. Such students may remain eligible to enrol in the (single-degree) WLU BBA program (although not necessarily in Co-op) or to enrol in another appropriate (single-degree) UW BCS or BMath plan respectively, depending upon their individual circumstances.

In conjunction with the BCS degree requirements in Table I "Degree Requirements" on page 11:5, this plan requires all the specified courses below. Any questions or concerns about any of the requirements should be directed to one of the plan's Academic Advisors at UW.

From UW

All of

CO 252 Linear and Nonlinear Optimization: Algorithms, Models and Applications
CS 132 Principles of Program Design or CS 133 Developing Programming Principles
CS 134 Principles of Computer Science
CS 240 Data Structures and Data Management
CS 241 Foundations of Sequential Programs
CS 245 Logic and Computation
CS 246 Software Abstraction and Specification
CS 251 Computer Organization and Design
CS 341 Algorithms
CS 350 Operating Systems
CS 480 Information Systems Management
MATH 135 (or MATH 145) Algebra
MATH 136 (or MATH 146) Linear Algebra 1
MATH 137 (or MATH 147) Calculus 1
MATH 138 (or MATH 148) Calculus 2
MATH 239 (or MATH 249) Introduction to Combinatorics
STAT 230 (or STAT 240) Probability
STAT 231 (or STAT 241) Statistics
STAT 331 Applied Linear Models

Three additional courses chosen from CS 340-398, 440-498.

One additional CS course chosen from CS 440-498.

One additional course chosen from

CS 440-498

CS 600- or 700-level courses

STAT 440 Statistical Computing

CO 487 Applied Cryptography

(CS 600- or 700-level courses may be taken only if an equivalent 400-level course does not exist and special permission is obtained from the instructor and a CS Undergraduate Advisor. Courses in this list may be counted as CS 0.5 units.)

The selection of upper-year CS courses must include at least one course from each of at least two of the following area groups:

Systems and SE: CS 343, 442, 444, 445, 446, 447, 450, 452, 454, 456, 457

Applications: CS 448, 482, 483, 486, 488

Mathematical Foundations of CS: CS 360, 365, 370, 371, 462, 466, 472, 476, 487

From WLU (BU and EC are the course abbreviations used in the WLU calendar)

All of

BUS 111W Introduction to Business Organization

BUS 121W Functional Areas of the Organization

BUS 227W Introduction to Financial Accounting

BUS 231W Business Law

BUS 247W Managerial Accounting

BUS 288W Organizational Behaviour 1

BUS 352W Marketing 1
BUS 354W Human Resource Management
BUS 362W Marketing 2
BUS 383W Financial Management 1
BUS 385W Operations Management 1
BUS 393W Financial Management 2
BUS 395W Operations Management 2
BUS 398W Organizational Behaviour 2
BUS 481W Business Policy 1
BUS 491W Business Policy 2
ECON 120W Introduction to Microeconomics
ECON 140W Introduction to Macroeconomics

One of

ECON 250W Intermediate Macroeconomic Analysis for Management
ECON 260W Intermediate Microeconomic Analysis for Management

Five additional 300- or 400- level BUS elective courses (2.5 units) taken in Third, Fourth or Fifth year.

From UW or WLU

Four additional elective courses (2 units) are required, normally selected (except with approval from both universities) from disciplines outside the areas of study offered by UW's Faculty of Mathematics and outside those offered by WLU's Department of Business. Students are free to choose their elective courses from either university.

For students who begin their CS course sequence with CS 131, the lowest-level entry point, CS 131 may be counted as one of the plan's four electives. Students who begin their CS course sequence with CS 134 (and hence do not take either CS 132 or CS 133) are required to take an additional 300 or 400-level CS course.

If students take both of WLU's ECON 250W and ECON 260W, the second of the two may be counted as one of the plan's four electives.

Note

For details about the various WLU Honours BBA policies, procedures, regulations and requirements that apply to this Double Degree plan, please consult the WLU Undergraduate Calendar and/or one of the plan's Academic Advisors at WLU.

Inter/Multi-disciplinary Studies

Women's Studies

The following six plans have been approved by the Inter/Multi-disciplinary Studies Board and the Arts Undergraduate Affairs Group.

Women's Studies, Science & Technology – Specialization, Minor and Option

These plans are designed for students wishing to learn about the main issues and questions about today's science and technology in the context of gender-based perspectives. The University of Waterloo is ideally equipped with numerous resources to offer these plans, not currently offered in Canadian universities and in only a few American schools. They help link Women's Studies with science and technology, rendering them more accessible as areas of study and activity. Library acquisitions are being enhanced in this area.

Four-year General Women's Studies, Science & Technology Specialization

Requirements: The successful completion of four units (specified below) with a cumulative average of at least 65%. Entry to the Specialization requires the approval of the Director of Women's Studies.

Two required courses:

WS 205 – Gender, Culture & Technology
WS 305 – Women & Entrepreneurship or WS 365 – Special Topics in Women's Studies

Three from the following Science & Society courses:

PHIL 256/PSYCH 256 – Introduction to Cognitive Science
PHIL 258/SCI 267 – Introduction to the Philosophy of Science
PSYCH 207 – Cognitive Processes
SCI 263 – Science & Society

Minor in Women's Studies, Science & Technology

Students in academic plans that allow minors can obtain a Minor in Women's Studies, Science & Technology by successfully completing five units as indicated below with a cumulative average of at least 65% in the five units.

Six required courses:

SCI 263 – Science & Society
STV 100 – Society, Technology & Values: Introduction
WS 101 – An Introduction to Women's Studies
WS 201 – Images of Women
WS 205 – Gender, Culture & Technology
WS 301 – Multicultural Perspectives on Women in Canada

Four from the following:

MSCI 311 – Organizational Design & Technology
MSCI 441 – Management Information Systems
PACS 325 – Conflict Management for Technical Professions
PHIL 256/PSYCH 256 – Introduction to Cognitive Science

Option in Women's Studies, Science & Technology

Students in academic plans that allow options, can obtain an Option in Women's Studies, Science & Technology by successfully completing four units as indicated below, with a cumulative average of at least 65% in the four units.

Six required courses:

SCI 263 – Science & Society
STV 100 – Society, Technology & Values: Introduction
WS 101 – An Introduction to Women's Studies
WS 201 – Images of Women
WS 205 – Gender, Culture Technology
WS 301 – Multicultural Perspectives on Women in Canada

Two from the following:

MSCI 311 – Organizational Design & Technology
MSCI 441 – Management Information Systems
PACS 325 – Conflict Management for Technical Professions

STV 100 – Society, Technology & Values: Introduction

Three from the following Technology & Society courses:

MSCI 311 – Organizational Design & Technology
MSCI 441 – Management Information Systems
PACS 325 – Conflict Management for Technical Professions
SOC 232 – Technology & Social Change
SOC 242 – Industrial Sociology
SOC 345 – Cyberspace & Social Life
STV 202 – Design Society
STV 205 – Cybernetics & Society
STV 302 – Information Technology & Society

PHIL 258/SCI 267 – Introduction to the Philosophy of Science

PSYCH 207 – Cognitive Processes
SOC 232 – Technology & Social Change
SOC 242 – Industrial Sociology
SOC 345 – Cyberspace & Social Life
STV 202 – Design & Society
STV 205 – Cybernetics & Society
STV 302 – Information Technology & Society

Notes:

1. This Minor is not open to Women's Studies Majors.
2. Normally a student may not double count any course for more than one Interdisciplinary Option or Interdisciplinary Minor. (See under "Interdisciplinary Plans" in University of Waterloo Undergraduate Calendar).

PHIL 256/PSYCH 256 – Introduction to Cognitive Science
PHIL 258/SCI 267 – Introduction to the Philosophy of Science

PSYCH 207 – Cognitive Processes
SOC 232 – Technology & Social Change
SOC 242 – Industrial Sociology
SOC 345 – Cyberspace Social Life
STV 202 – Design Society
STV 205 – Cybernetics & Society
STV 302 – Information Technology & Society

Notes:

1. This Option is not open to Women's Studies Majors.
2. Normally a student may not double count any course for more than one Interdisciplinary Option or Interdisciplinary Minor. (See under "Interdisciplinary Plans" in University of Waterloo Undergraduate Calendar).

Women's Studies, Issues in Entrepreneurship – Specialization, Minor and Option

These plans are designed for students wishing to examine and engage in critique and scholarship issues of gender in relation to principles of entrepreneurship and human dynamics within organizations. The University of Waterloo is ideally equipped with numerous resources to offer these plans, not currently offered in Canadian universities and in only a few American schools. These plans offer students the opportunity to bridge Women's Studies and these important areas of activity and research. Library acquisitions are being continued in this area.

Four-year General Women's Studies, Issues in Entrepreneurship Specialization

Requirements: The successful completion of four units (specified below) with a cumulative average of at least 65%. Entry to the Specialization requires the approval of the Director of Women's Studies.

Two required courses:

WS 205 – Gender, Culture & Technology or WS 365 – Special Topics in Women's Studies
WS 305 – Women & Entrepreneurship

Six from the following courses:

ECON 220 – The Principles of Entrepreneurship
HIST 113 – Canadian Business History: Innovators & Entrepreneurs
MSCI 211 – Organizational Behaviour
PSCI 231 – Government & Business in Canada
PSYCH 438 – Consumer Behaviour

SOC 243 – Occupational Sociology

or one of:

ECON 221 – Statistics for Economists
ENVS 278 – Advanced Environmental Research Methods
ISS 250R – Social Statistics
PSCI 214 – Quantitative Analysis
SOC 280 – Social Statistics

Note:

1. Students are advised that they may apply to take courses from other universities on a UW letter of permission to complete their requirements, subject to Faculty of Arts Residency Requirement and Transfer Credit Maxima policies. See WS Director for detailed information.

Minor in Women's Studies: Issues in Entrepreneurship

Students in academic plans that allow minors can obtain a Minor in Women's Studies: Issues in Entrepreneurship by successfully completing five units as indicated below with a cumulative average of at least 65% in the five units.

Six required courses:

ECON 220 – The Principles of Entrepreneurship
HIST 113 – Canadian Business History: Innovators & Entrepreneurs
WS 101 – An Introduction to Women's Studies
WS 201 – Images of Women
WS 301 – Multicultural Perspectives on Women in Canada
WS 305 – Women & Entrepreneurship

Four from the following:

MSCI 211 – Organizational Behaviour
PSCI 231 – Government & Business in Canada
PSYCH 438 – Consumer Behaviour
SOC 243 – Occupational Sociology

or one of:

ECON 221 – Statistics for Economists
ENVS 278 – Advanced Environmental Research Methods
ISS 250R – Social Statistics

PSCI 214 – Quantitative Analysis
PSYCH 292 – Basic Data Analysis
SOC 280 – Social Statistics

Notes:

1. This Minor is not open to Women's Studies Majors.
2. Normally a student may not double count any course for more than one Interdisciplinary Option or Interdisciplinary Minor. (See under Interdisciplinary Plans in University of Waterloo Undergraduate Calendar).
3. Students who take statistics and research methods as part of their major/honours plans are allowed to substitute other courses in statistics/methods, or an approved statistics course required by other programs outside the Faculty of Arts. See Women's Studies Director for guidance.
4. Students are advised that they may apply to take courses from other universities on a UW letter of permission to complete their requirements, subject to Faculty of Arts Residency Requirement and Transfer Credit Maxima policies. See WS Director for detailed information.

Option in Women’s Studies: Issues in Entrepreneurship

Students in academic plans that allow options can obtain an Option in Women’s Studies: Issues in Entrepreneurship by successfully completing four units as indicated below, with a cumulative average of at least 65% in the four units.

- ISS 250R – Social Statistics
- PSCI 214 – Quantitative Analysis
- PSYCH 292 – Basic Data Analysis
- SOC 280 – Social Statistics

Six required courses:

- ECON 220 – The Principles of Entrepreneurship
- HIST 113 – Canadian Business History: Innovators & Entrepreneurs
- WS 101 – An Introduction to Women’s Studies
- WS 201 – Images of Women
- WS 301 – Multicultural Perspectives on Women in Canada
- WS 305 – Women & Entrepreneurship

Two from the following:

- MSCI 211 – Organizational Behaviour
- PSCI 231 – Government Business in Canada
- PSYCH 438 – Consumer Behaviour
- SOC 243 – Occupational Sociology

or one of:

- ECON 221 – Statistics for Economists
- ENVS 278 – Advanced Environmental Research Methods

Notes:

1. This Option is not open to Women’s Studies Majors.
2. Normally a student may not double-count any course for more than one Interdisciplinary Option or Interdisciplinary Minor. (See under “Interdisciplinary Plans” in University of Waterloo Undergraduate Calendar).
3. Students who take statistics and research methods as part of their major/honours plans are allowed to substitute other courses in statistics/methods, or an approved statistics course required by other programs outside the Faculty of Arts. See Women’s Studies Director for guidance.
4. Students are advised that they may apply to take courses from other universities on a UW letter of permission to complete their requirements, subject to Faculty of Arts Residency Requirement and Transfer Credit Maxima policies. See WS Director for detailed information.

PLAN DELETION

Inter/Multi-disciplinary Studies
Canadian Studies

Three-year Major, Four-year Major, General and Honours Options, Minor

An external review completed in 2001 recommended greatly increased resources or program closure. Given the very low enrolment in the last few years, there is no justification for pursuing additional resources from the University or St. Paul’s United College where the program is housed. Attempts to meet program-related recommendations of the External Review Committee using existing resources were unsuccessful. Therefore, the Advisory Board recommends program closure. Students currently enrolled (~ six) can complete the plans with full accreditation; no new students have been admitted since 2002.

EXAMINATION REGULATIONS

ASSIGNMENT DUE DATES

CLASSES HELD DURING THE FORMAL EXAMINATION PERIOD

This issue was first discussed in Council in March 2002 in response to a request to consider whether there was a need for a formal regulation stipulating that assignments may not be due during the “sacred” period (i.e., between the last day of classes and the first day of exams). The Operations Committee considered the issue and recommended that assignments not be due during the “sacred” period, but also, that they not be due during the examination period to allow students to concentrate on their exams. Council approved this recommendation and forwarded it to Senate for approval.

At its April 15, 2002 meeting, following a general discussion in which Senators agreed with the intent of the proposal, Senate referred to the proposal back to Council asking it to revise the proposal to take into account the diversity of course evaluation requirements and to provide greater clarification on due dates for various types of evaluations.

Council recommends that the statement be changed as follows [additions in underline font]:

Each term the formal lecture period, as defined by the dates published in the Undergraduate Calendar, normally ends two or three days before final examinations begin. No classes are to be held after the end of the formal lecture period. In the period between the end of the formal lecture period and the beginning of final examinations, no instructor shall be permitted to administer, and no student shall be required to sit for, examinations, tests, or lectures.

It is important to ensure that the student has equitable opportunity to prepare for the final assessment of all courses taken during the term. Normally, the period of the term scheduled for final examinations is reserved for preparation and sitting for the final examination or an alternative assignment with equivalent time commitments for those courses without final examinations. No assignments are to be due after the end of the formal lecture period for courses with final examinations.

COURSE DESCRIPTIONS ON-LINE VERSION AS UW OFFICIAL VERSION

In recognition of the constantly evolving curriculum and the need to be responsive to changes in courses throughout the year, Council agreed to recommend to Senate that: UW officially acknowledge that the SA Catalogue (on-line Calendar) is the official up-to-date record of courses.

FOR INFORMATION

On behalf of Senate, Council approved a number of changes to academic plans, new courses, course changes and course inactivations for the Faculties of Applied Health Sciences (Health Studies & Gerontology, Recreation & Leisure Studies, Kinesiology), Arts (Drama & Speech Communication, Economics, Classical Studies, English Language & Literature, Political Science, Accountancy, Jewish Studies, History, Philosophy, Psychology, Religious Studies), Mathematics (Computer Science, Health Informatics Option, First-Year English Writing Skills Requirement [delete ENGL 210C]), Renison College (East Asian Studies) and the Inter/Multi-disciplinary Studies Programs (Fine & Performing Arts, Sexuality, Marriage & the Family, Women's Studies).

/tlc
December 23, 2003

Gail Cuthbert Brandt
Chair

UNIVERSITY OF WATERLOO

REPORT OF THE DEAN OF THE FACULTY OF ARTS TO SENATE

JANUARY 19, 2004

For information:

A. *APPOINTMENTS*

Probationary Term Reappointment

TOLMIE, Sarah (BA University of Toronto 1993, MA University of Toronto 1994, PhD University of Cambridge 1999), Assistant Professor, Department of English Language and Literature, July 1, 2004 to June 30, 2006.

Adjunct Appointments

ACHESON, Kathy, Associate Professor, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

EAGLES, Keith, (Professor Emeritus), Associate Professor, Department of History, January 1, 2004 to April 30, 2004.

FRICK, Peter, Assistant Professor, Department of Religious Studies, January 1, 2004 to December 31, 2008.

HARTLEY, Julie, Lecturer, Department of Drama and Speech Communication, January 1, 2004 to April 30, 2004.

MARTIN, Rick, Lecturer, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

SHEEHY, Donald, Lecturer, School of Accountancy, January 1, 2004 to April 30, 2004.

Adjunct Reappointments

FLERAS, Augie, Associate Professor, Department of Sociology, January 1, 2004 to April 30, 2004.

GINGRICH, Nadine, Assistant Professor, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

HARTLING, Shannon, Assistant Professor, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

KRELLER, Paul, Assistant Professor, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

LABER, Rolf, Lecturer, Department of Germanic and Slavic Studies, January 1, 2004 to April 30, 2004.

MCARTHUR, Kathryn, Lecturer, Department of Drama and Speech Communication, January 1, 2004 to April 30, 2004.

MCARTHUR, Kathryn, Lecturer, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

PATTERSON, Randi, Lecturer, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

SMYTH, Jacqui, Assistant Professor, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

WYSE, Bruce, Assistant Professor, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

Cross Appointment

CUTHBERT BRANDT, Gail, Professor, Renison College, cross appointment to Department of History, July 1, 2003 to June 30, 2008.

Graduate Students Appointed as Adjunct Lecturers

DADEY, Bruce, Department of English Language and Literature, September 1, 2003 to December 31, 2003.

DADEY, Bruce, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

HUMPHREYS, Sara, Department of English Language and Literature, September 1, 2003 to December 31, 2003.

HUMPHREYS, Sara, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

MAGRI, Kevin, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

SCOTT, Catherine, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

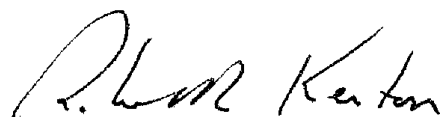
TRUSCELLO, Michael, Department of English Language and Literature, September 1, 2003 to December 31, 2003.

WALLIN, Mark, Department of English Language and Literature, January 1, 2004 to April 30, 2004.

B. RETIREMENTS

FOURNIER, Hannah, Associate Professor, Department of French Studies, January 1, 2004.

FOURNIER, Raymond, Associate Professor, Department of French Studies, January 1, 2004.

A handwritten signature in black ink that reads "R. R. Kerton". The signature is written in a cursive style with a large initial "R" and "K".

Robert R. Kerton
Dean, Faculty of Arts

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF ENGINEERING TO SENATE
January 19, 2004

For information:

A. APPOINTMENTS

New Probationary Term

CHOU, Chih-Hsiung (Perry), Associate Professor, Department of Chemical Engineering, February 1, 2004 - June 30, 2007. (PhD Rice University, USA 1995; MSc National Taiwan University 1987; BS Taiwan University 1984). Dr. Chou brings to our Department new strengths in Biochemical Engineering, combining interests in molecular microbiology with traditional biochemical engineering and has particular expertise in biocatalysts with applications in the pharmaceutical, agricultural, food industries and the environment.

Probationary Term

DAVISON, Daniel E., Assistant Professor, Department of Electrical & Computer Engineering, May 1, 2004 - June 30, 2006. (PhD University of Michigan 1997; MASc University of Toronto 1994; BASc University of Toronto 1992).

GONG, Guang, Associate Professor, Department of Electrical & Computer Engineering, September 1, 2004 - June 30, 2006. (PhD University of Electronic Science and Technology of China 1990; MS Northwest Telecommunication Engineering Institute, China 1985; BS Xichang Normal College, China 1981).

SAZONOV, Andrei, Assistant Professor, Department of Electrical & Computer Engineering, March 1, 2004 - June 30, 2006. (PhD Moscow Institute of Electronic Technology [MIET] 1997; Dipl. Engineering MIET 1991).

WONG, K. Thomas, Assistant Professor, Department of Electrical & Computer Engineering, July 1, 2004 - June 30, 2006. (PhD Purdue University 1996; MS Michigan State University 1990; BS University of Colorado 1987).

New Definite Term – full-time

PONNIAH, Joseph, Research Professor, Department of Civil Engineering, November 1, 2003 - October 31, 2005. (PhD University of Waterloo 1987; MASc University of Waterloo 1983; BSc University of Ceylon, Sri Lanka 1971). Dr. Ponniah is on secondment from the Ministry of Transportation Ontario (MTO) where he is a Senior Pavement Research Engineer at the Materials Engineering and Research Office. He has a strong background and extensive experience in road and pavement engineering with special expertise in development of preventive pavement maintenance treatments and performance evaluation of bituminous pavements. Dr. Ponniah will participate in the research program of the Center for Pavement and Transportation Technology (CPATT) with funding amounting to \$9 million over 5 years. Dr. Ponniah's secondment to the University of Waterloo is a part of the partnership arrangement between the CPATT and MTO.

Visiting Appointments

ARAGHI NEJAD, Shahab, Scholar, Department of Civil Engineering, February 1, 2004 - October 31, 2004.

FU, Li, Scholar, Department of Electrical & Computer Engineering, April 1, 2004 - March 31, 2005.

NEKILI, Mohamed, Research Assistant Professor, Department of Electrical & Computer Engineering, January 1, 2004 - December 31, 2004.

SAFI, Mohammad, Scholar, Department of Civil Engineering, July 1, 2003 - March 31, 2004.

SHAO, Fang-Ming, Assistant Professor, Department of Electrical & Computer Engineering, September 14, 2003 - September 13, 2004.

WENXIA, Sima, Professor, Department of Electrical & Computer Engineering, November 1, 2003 - April 30, 2004.

Visiting Reappointments

PALLIS, Stylianos, Scholar, Department of Electrical & Computer Engineering, January 7, 2004 - January 6, 2005.

Adjunct Appointments

GOLAFSHANI, Ali R., Department of Mechanical Engineering, January 1, 2004 - April 30, 2004.

WANG, Wilson Q., Lecturer, Department of Mechanical Engineering, January 1, 2004 - April 30, 2004.

Adjunct Reappointments

BOVAIRD, Christopher, Associate Professor, Engineering Undergraduate Office, January 1, 2004 - December 31, 2004.

Sessional Appointments

CORBIN, Stephen, Associate Professor, Department of Mechanical Engineering, January 1, 2004 - April 30, 2004.

PICK, Roy, Professor, Department of Mechanical Engineering, January 1, 2004 - April 30, 2004.

Graduate Students appointed as Part-time Lecturers

LARSSON, Johan, Department of Mechanical Engineering, January 1, 2004 - April 30, 2004.

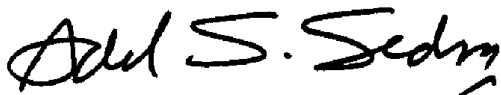
TEHRANI, Ali, Department of Systems Design Engineering, January 1, 2004 - April 30, 2004.

B. SABBATICAL

EMELKO, Monica, Assistant Professor, Department of Civil Engineering, July 1, 2004 - December 31, 2004, six months at 100% salary.

PENLIDIS, Alexander, Professor, Department of Chemical Engineering, September 1, 2004 - August 31, 2005, twelve months at 100% salary.

PRITZKER, Mark, Professor, Department of Chemical Engineering, September 1, 2004 - August 31, 2005, twelve months at 85% salary.



Adel S. Sedra
Dean, Faculty of Engineering

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN FACULTY OF ENVIRONMENTAL STUDIES TO SENATE
January 19, 2004

For Information:

A. APPOINTMENTS

Adjunct Appointments

BRECHER, Ronald, Assistant Professor, School of Planning, October 1, 2003 to July 1, 2005.

VAIDYANATHAN, Geeta, Lecturer, Department of Environment and Resource Studies, September 1, 2003 to August 31, 2004.

Adjunct Reappointment

BOROVILOS, George, Lecturer, Faculty of Environmental Studies, January 1, 2004 to April 30, 2004.

Special Appointment

MACDONALD, Flora, TD/Walter Bean Visiting Professor, Faculty of Environmental Studies, September 1, 2003 to April 30, 2004.

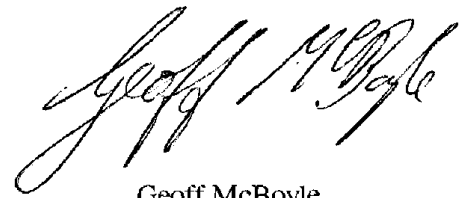
B. ADMINISTRATIVE APPOINTMENT

FILION, Pierre, Acting Director, School of Planning May 1, 2004 to June 30, 2004.

C. SABBATICAL

TO BE APPROVED BY THE BOARD OF GOVERNORS

JOHNSON, Laura, Associate Professor, School of Planning, (July 1, 2004 to December 31, 2004) 6 months @ 85% salary.



Geoff McBoyle
Dean

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF MATHEMATICS TO SENATE
January 19, 2004

For information:

A. APPOINTMENTS

New Probationary Term

YI, Grace (BSc, 1986, MSc, 1989 both from Sichuan Univ.; MA, 1996, York Univ.; PhD, 2000, Univ. of Toronto), Associate Professor, Dept. of Statistics and Actuarial Science, July 1, 2004 – June 30, 2007. Dr. Yi spent five years in a faculty position in the University of Electronic Science and Technology of China, where she taught mathematics and pursued research in the structure of fuzzy topologies. This experience provided an excellent basis for research in mathematical statistics, which she undertook under the supervision of Professor D.A. Fraser after completing a master's degree from York University in 1996. At the conclusion of her PhD, Dr. Yi began a postdoctoral fellowship in this Department, working in biostatistics with Professors Richard Cook and Jack Kalbfleisch. In a few short years, she has developed a remarkable research program focused on the development of statistical methods for longitudinal studies. For example, Dr. Yi has developed and published new methods concerning incomplete data from multi-state processes, missing data in longitudinal studies with multivariate/clustered outcomes, regression with covariate measurement error or misclassification, and robust methods for sequential analyses of recurrent event data. Since first coming to UW, Dr. Yi has taught a number of undergraduate courses at the second- and third-year level, and has received favourable responses from students on the Faculty-administered course questionnaire. She has a very clear and coherent lecturing style, and has received teaching awards at both the University of Toronto and the University of Electronic Science and Technology of China.

Definite Term -- Reappointment -- part-time

LI, Xiangzhu, Research Assistant Professor, Dept. of Applied Mathematics, January 1, 2004 – December 31, 2004.

Visiting Appointments

DILTEMIZ, Abdullah (Univ. of Technology, Aachen, Germany), Visiting Scholar, School of Computer Science, September 1, 2003 – July 31, 2004.

Adjunct Appointments

ABID, Bader, Lecturer, Dean's Office, January 1, 2004 – April 30, 2004.

TRAN, Thomas, Lecturer, Dean's Office, January 1, 2004 – April 30, 2004.

Adjunct Reappointments

GREEN, Ronald, Lecturer, Dean's Office, January 1, 2004 – April 30, 2004.

POTAPCHIK, Alexander, Lecturer, Dean's Office, January 1, 2004 – April 30, 2004

SANTIN, Anita, Lecturer, Dean's Office, January 1, 2004 – April 30, 2004.

WINKLER, Oliver (Perimeter Institute), Lecturer, Dept. of Applied Mathematics, January 1, 2004 – April 30, 2004.

XIANG, Yang (Univ. of Guelph), Professor, School of Computer Science, December 1, 2004 – November 30, 2005.

Graduate Students appointed as Part-time Lecturers

MUNROE, James, Dept. of Applied Mathematics, January 1, 2004 – April 30, 2004.

WEST, Joseph, Dept. of Applied Mathematics, January 1, 2004 – April 30, 2004.

B. ADMINISTRATIVE APPOINTMENTS

MATTHEWS, David, Chair, Dept. of Statistics and Actuarial Science, September 1, 2005 – June 30, 2007.

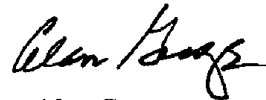
OLDFORD, Wayne, Director, Computational Mathematics Program, December 1, 2003 – June 30, 2006.

WAINWRIGHT, John, Chair, Dept. of Applied Mathematics, July 1, 2004 – June 30, 2006.

C. SABBATICAL

FOR APPROVAL BY THE BOARD OF GOVERNORS

MENEZES, Alfred, Professor, Dept. of Combinatorics and Optimization, September 1, 2004 – August 31, 2005, with 85% salary.



Alan George
Dean

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF SCIENCE TO SENATE
January 19, 2004

For information:

A. APPOINTMENTS

Probationary Term

DUNCKER, Bernard P., Assistant Professor, Department of Biology, November 1, 2004 to June 30, 2007. [B.Sc. Hons., University of Ottawa (1988); Ph.D., Queen's University (1995).]

Definite Term – Reappointment – full-time

BOONE, Chris D., Research Assistant Professor, Department of Chemistry, January 1, 2004 to May 30, 2005.

Adjunct Appointments

EASTMAN, Ann, Lecturer, Department of Biology, January 1, 2004 to October 31, 2005.

KALDIS, Angelo, Lecturer, Department of Biology, January 1, 2004 to April 30, 2004.

Adjunct Reappointments

KLEE, Ulysses, Lecturer, Department of Biology, January 1, 2004 to April 30, 2004.

Cross Reappointments


SIVAK, Jacob, Professor, School of Optometry cross-appointed to Department of Biology, November 1, 2003 to October 31, 2005.

FOR APPROVAL BY THE BOARD OF GOVERNORS

B. SABBATICAL

MARTIN, James, Assistant Professor, Department of Physics, (special early leave) March 1, 2004 to August 31, 2004, full salary arrangements.

WARD, Owen, Professor, Department of Biology, May 1, 2004 to April 30, 2005, full salary arrangements.


D.G. Dixon
Dean

UNIVERSITY OF WATERLOO
REPORT OF RENISON COLLEGE TO SENATE
19 January 2004

For Information:

A. Appointments

Definite Term - Part-time – Adjunct Assistant Professors

Beverley Bell-Rowbotham, Adjunct Assistant Professor of Interdisciplinary Studies, January 1, 2004 to April 30, 2004.

Judi Jewinski, Adjunct Assistant Professor of English, January 1, 2004 to April 30, 2004.

Akiko Maruoka, Adjunct Assistant Professor of Japanese, January 1, 2004 to April 30, 2004.

Dale Payne, Adjunct Assistant Professor of Social Work, January 1, 2004 to April 30, 2004.

B. Definite Term - Part-time - Lecturers

Dan Andreae, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

Chris Blais, Lecturer in Interdisciplinary Studies, January 1, 2004 to April 30, 2004.

Jon Boyd, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

Sandra Campbell, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

Deborah Clark, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

Paul Derry, Lecturer in Psychology, January 1, 2004 to April 30, 2004.

Richard Ennis, Lecturer in Psychology, September 1, 2003 to 31 December, 2003.

Rick Finch, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

Susan Hodges Bryant, Lecturer in English, January 1, 2004 to April 30, 2004.

Joanna Jacob, Lecturer in Interdisciplinary Studies, January 1, 2004 to April 30, 2004.

Young Gon Kim, Lecturer in Korean and East Asian Studies, January 1, 2004 to April 30, 2004.

Val Lariviere, Lecturer in Fine Arts/Religious Studies, January 1, 2004 to April 30, 2004.

Yan Li, Lecturer in Chinese and East Asian Studies, January 1, 2004 to April 30, 2004.

Doris M'Timkulu, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

Gerry Mueller, Lecturer in Religious Studies, January 1, 2004 to April 30, 2004.

Susan Scott, Lecturer in Religious Studies, January 1, 2004 to April 30, 2004.

Barbara Swartzentruber, Lecturer in Social Work, January 1, 2004 to April 30, 2004.

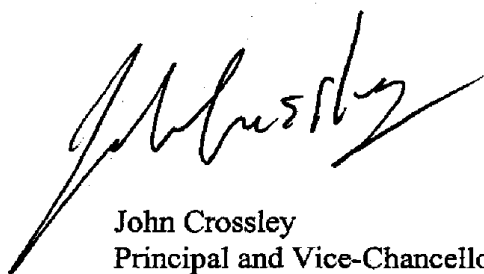
Victor Ujimoto, Lecturer in East Asian Studies, January 1, 2004 to April 30, 2004.

John Vardon, Lecturer in English, January 1, 2004 to April 30, 2004.

Sufeng Xu, Lecturer in Chinese, January 1, 2004 to April 30, 2004.

C. Sabbatical Leave

Dr. Linda Snyder, Assistant Professor, January 1, 2004 to June 30, 2004 – 100% salary.



John Crossley
Principal and Vice-Chancellor

University of Waterloo
SENATE
January 19, 2004

Committee Appointment - For Approval

▪ *Distinguished Teacher Award Committee*

Faculty (two-year term – January 1, 2004–December 31, 2005):

Thomas Yoder Neufeld, Religious Studies/Peace & Conflict Studies, Conrad Grebel College



Secretary of the University

To: Senators
From: Lois Claxton, Secretary of the University
Subject: Vacancies on Senate as of April 30, 2004
Date: January 19, 2004

As directed by Senate Bylaw 5, the following list of Senate vacancies (effective April 30, 2004) is for information. Elections will be held presently.

Faculty Representatives from each Faculty:

AHS	Laurie Hoffman-Goetz †
Arts	John North †
Engineering	Alan Plumtree
Environmental Studies	Mieke Delfgaauw †
Mathematics	Kirsten Morris
Science	Bruce Greenberg

Colleges:

Conrad Grebel	Marlene Epp †
St. Jerome's University	Conrad Hewitt †

Faculty-at-Large:

Arts	Jane Buyers
	Rick Helmes-Hayes
Environmental Studies	Len Guelke
Mathematics	Brian Forrest †
	John Wainwright †
	Johnny Wong †
Science	James Sloan

Undergraduate Students:

The call for nominations closes on January 27, 2004 and elections will be held concurrently with the Federation of Students general elections February 10 - 12, 2004. There will be vacancies in AHS, Arts, ES / IS, Science and at-large; there will be a by-election in Mathematics.

Graduate Students:

Jeannette Byrne †
Lubomir Stanchev †

Alumni:

Suzanne Hubbard †
Neil Malcolm †

† eligible to serve a second term