

University of Waterloo
SENATE
 Notice of Meeting

Date: Tuesday, May 22, 2007

Time: 4:30 p.m.

Place: Needles Hall, Room 3001

	OPEN SESSION	Page	Action
4:30	<u>Consent Agenda</u> Motion: That Senate approve or receive for information by consent items 1-4 [below].		
	1. Approval of the April 16, 2007 Minutes [enclosed]		Decision
	2. Report of the Chair a. Recognition and Commendation	2, A1	Information
	3. Reports from the Faculties	2, A2-A16	Information
	4. Other Business a. Committee and Council Appointments b. Delegation of Authority	2, A17 2, A18	Decision Decision
	<u>Regular Agenda</u>		
4:35	5. Presentations a. Capital Projects Update	2, A19	Information
4:45	b. Housing Update	2	Information
5:05	6. Business Arising from the Minutes a. Graduate Student Growth	2	Information
5:15	7. Report of the Chair a. Environmental Scan	2	Information
5:30	8. Report of the Vice-President, Academic & Provost	2	Information
5:40	9. Reports from Councils a. Graduate & Research	2, A20-A29	Decision/Information
5:50	b. Undergraduate	2, A30-A35	Decision/Information
6:00	10. Other Business		
	CONFIDENTIAL SESSION		
6:05	11. Other Business a. Naming Proposal	3, CS1-CS2	Information/Discussion

The Executive Committee met on May 7, 2007 and wishes to report as follows:

OPEN SESSION

Consent Agenda

2. REPORT OF THE CHAIR

Recognition and Commendation. The Committee agreed to forward this report to Senate for information.

3. REPORTS FROM THE FACULTIES

The Committee agreed to forward these reports to Senate for information.

4. OTHER BUSINESS

Committee and Council Appointments. The Committee agreed to recommend these appointments to Senate for approval.

Delegation of Authority. The Committee understood that the roster of graduands would not be available until after the regular meeting of Senate in May, and that approval is required before the June meeting. Accordingly, the Committee agreed to recommend that Senate delegate authority for such approval to its Executive Committee.

Regular Agenda

5. PRESENTATIONS

Capital Projects Update. The Vice-President, Administration & Finance will respond to questions as necessary.

Housing Update. The Director of Business Operations will present this item.

6. BUSINESS ARISING FROM THE MINUTES

Graduate Student Growth. The Dean of Graduate Studies will provide an update as necessary.

7. REPORT OF THE CHAIR

The Chair will provide a brief "Environmental Scan."

8. REPORT OF THE VICE-PRESIDENT, ACADEMIC & PROVOST

The Vice-President will report as appropriate.

9. REPORTS FROM COUNCILS

Graduate & Research. The Committee agreed to forward this report to Senate for approval and information as indicated.

Undergraduate. The Committee agreed to forward this report to Senate for approval and information as indicated.

University of Waterloo

SENATE

May 22, 2007

Report of the Chair

For Information

RECOGNITION AND COMMENDATION

Architecture graduate **Michaela MacLeod** is the winner of the Canada Council for the Arts' \$34,000 Prix de Rome in Architecture for Emerging Practitioners, awarded to a recent graduate of one of Canada's ten accredited Schools of Architecture who demonstrates exceptional potential. The prize winner is given the opportunity to visit exceptional buildings across the world and to intern at an architecture firm of international stature.

An Architecture graduate student design team was awarded third prize in the ninth annual International Arquine (focused on the promotion of Contemporary Architectural Culture) Competition for an Infographic Centre and related public spaces at the Plaza de las Tres Culturas in Tlatelolco, Mexico. The win by students **Farid Noufaily**, **Gregory Perkins** and **Pooya Baktash**, faculty member **Geoffrey Thün** and adjunct faculty member **Kathy Velikov** was announced during the 2007 Ciudad/City Conference held in March in Mexico City.

Architecture graduate **Anne-Marie Armstrong** has won a 2007 Fulbright Award. "The Canada-U.S. Fulbright Program is a bi-national program supported by the Governments of Canada and the United States and a large number of public and private sector partners. Its mandate is to enhance mutual understanding between the people of Canada and the people of the United States by providing support to outstanding graduate students, faculty, professionals and independent researchers."

Electrical & Computer Engineering PhD candidate **Wei Song** has been awarded a Best Student Paper Award from the IEEE Wireless Communications and Networking Conference. Her paper, entitled "Multi-Class Resource Management in a Cellular/WLAN Integrated Network," was singled out from 1,721 submitted at a conference held in Hong Kong in March. Song's supervisor, **Weihua Zhuang** of the Broadband Communications Research Group, co-authored the paper.

In the 17th annual International Environmental Design Contest (sponsorship includes Intel, the US Department of Energy, the Food and Drug Administration and the American Water Works Association and Research Foundation) held in New Mexico, an Environmental Engineering student team (**Cameron Brown**, **Heather Crone**, **Jonas Didzbalis**, **Paul Javor**, **Bridget Schmidt** and **Caitlin Sykes**) came first for its design of a system farmers can use to treat pond water for use in routine pesticide applications, with "the highest number of points given to any team in the history of this competition."

After winning first place in the national Wes Nicol Undergraduate Business Plan Competition in late March, Arts students **Jasmin Hofer** and **Ashley Smith** came home from the finals with a \$5000 prize for their submission "Energrow" which designs and builds presses to process soybeans into livestock feed plus an oil that can be converted to fuel.

**UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF APPLIED HEALTH SCIENCES TO SENATE**

Tuesday, May 22, 2007

For Information:

A. APPOINTMENTS

New Probationary Term

NELSON, Aimee, Assistant Professor, Department of Kinesiology, January 1, 2008 to June 30, 2011. B.Sc. McMaster University (Psychology), 1997; Ph.D University of Toronto (Systems Neuroscience), 2003. Dr. Nelson's research is in the area of motor control and movement neuroscience which will be a good fit with the Department's mission over the next five years.

Probationary Term

DURKIN, Jennifer, Assistant Professor, Department of Kinesiology, July 1, 2007 to June 30, 2010.

MAIR, Heather, Assistant Professor, Department of Recreation and Leisure Studies, July 1, 2007 to June 30, 2010.

PARRY, Diana, Assistant Professor, Department of Recreation and Leisure Studies, July 1, 2007 to June 30, 2010.

TUPLING, Russell, Assistant Professor, Department of Kinesiology, July 1, 2007 to June 30, 2010.

Definite Term Reappointment– full-time

MARTIN, Lynn, Assistant Professor, Department of Health Studies and Gerontology, April 1, 2007 to March 31, 2008.

Adjunct Appointments

GRAHAM, Terence, Professor, Department of Kinesiology, July 1, 2007 to June 30, 2010.

SPRIET, Lawrence, Professor, Department of Kinesiology, July 1, 2007 to June 30, 2010.

YOUNG, Genevieve, Lecturer, Department of Kinesiology, May 1, 2007 to August 31, 2007

B. RETIREMENTS

PEDLAR, Alison, Professor, Department of Recreation and Leisure Studies, July 1, 2007.

C. DEATHS

PATLA, Aftab, Professor, Department of Kinesiology, January 29, 2007.



UNIVERSITY OF WATERLOO

REPORT OF THE DEAN OF THE FACULTY OF ARTS TO SENATE

MAY 22, 2007

For information:

A. **APPOINTMENTS****Tenured**

WESTLEY, Frances, Professor, Department of Drama and Speech Communication and Department of Psychology, effective July 1, 2007. Since receiving her PhD in 1978, Frances Westley has held the following positions: Assistant Professor (1978-82), Department of Sociology, University of Western Ontario; SSHRC Fellow (1982-84), Management Reorientation Program; Assistant Professor (1983-90), Associate Professor (1990-98), Professor (1998-2004) Faculty of Management, McGill University; Visiting Scholar (1994-95), Institut d'Administration des Entreprises, Puyricard, France; Suncor Visiting Scholar (2002-03) Institute for Resource Industries and Sustainability, University of Calgary; and Director (2005 to date), Gaylord Nelson Institute of Environmental Studies, University of Wisconsin. She is very highly regarded as a scholar who has made a significant contribution to national and international social innovation. As a respected colleague in an international network of researchers, called the Resilience Alliance, Dr. Westley has contributed extensive research centering on the complex dynamics between society and the environment. She is described by her peers as "unique because she understands and can integrate the natural sciences and social sciences into insightful interdisciplinary analysis and synthesis."

Probationary Term Appointments

DOYLE, Matthew, BA McMaster University 1994, MA McMaster University 1995, PhD University of British Columbia 2002, Assistant Professor, Department of Economics, July 1, 2007 to June 30, 2010. Currently, Dr. Doyle is an Assistant Professor in the Department of Economics at Iowa State University. His main research focus is monetary economics, with an emphasis on understanding inflation trends. He has also examined questions of economic policy in areas such as economic development and natural resource economics. His work has appeared in highly visible outlets, including both academic journals and policy-sponsored publications. Dr. Doyle is an enthusiastic teacher who has experience teaching macroeconomics at all levels of study. He will contribute to the department's undergraduate and graduate programs by strengthening the areas of macro and monetary economics. His broad interests will complement areas of strength inside and outside the economics department, including the new graduate program in global governance.

KROEKER, Greta, BA History Bethel College North Newton Kansas 1994, MA History University of Missouri Kansas City 1999, PhD University of California at Berkeley 2004, Assistant Professor, Department of History, July 1, 2007 to June 30, 2010. Assistant Professor, History, Virginia Tech College of Liberal Arts and Human Sciences, 2005 - present. Instructor, Department of History, University of California at Berkeley, 2004-2005. Book in progress, *Erasmus in the Footsteps of Paul: From Tradition to Transcendence* (Toronto: University of Toronto Press) under contract, completion September 2007. *In epistolam pauli apostoli ad romanos paraphrasis by Erasmus of Rotterdam*, edited and annotated by Greta Grace Kroeker (Amsterdam: New Holland Publishing Company) under negotiation. Refereed book chapters, "Beyond the *Freedom of the Will*: Erasmus'

Struggle for Grace,” in *Defining and Redefining Early Modern History: Old Paradigms and New Directions*, edited by Christopher Ocker and Peter Wallace in *Studies in Medieval and Reformation Thought* (Leiden: Brill) forthcoming. Refereed Articles, “The Searching Believer, Erasmus in the Footsteps of Paul,” in *Konfessionen und Kulturen*, edited by Kaspar von Greyerz and Thomas Kaufmann (Güterslohr: Schriften des Vereins für Reformationsgeschichte), forthcoming. Dr. Kroeker’s speciality is Early Modern European history. She will be replacing Dr. Karin MacHardy, the Department of History’s current Early Modern European historian, who will be retiring in the summer of 2007. Dr. Kroeker’s expertise complements our current offerings in the European history field. The Department of History will need a well-rounded European field for its future plans, including its continued presence in the Tri-University graduate program. Therefore, her presence is essential in the Department. Her teaching evaluations at previous institutions, including her current position at Virginia Polytechnic Institute and State University, are almost unanimously glowing. Students have praised Dr. Kroeker for her outstanding teaching abilities, easy accessibility and friendly personality.

LLUIS, Stéphanie, Masters in Mathematics and Economics Université Panthéon-Sorbonne 1993, Masters in Economics Université de Montréal 1994, PhD in Economics Université de Montréal 2001, Assistant Professor, Department of Economics, July 1, 2007 to June 30, 2010. She spent two years at the University of British Columbia as a visiting student while finishing her dissertation. Before joining the University of Waterloo, she worked six years as an Assistant Professor in Labour Economics at the University of Minnesota Industrial Relations Center. Dr. Lluís has developed strong skills in the field of Personnel Economics, particularly in the areas of worker mobility and firm workplace organization. Her research analyzes learning mechanisms applied to worker and firm decisions and exploits various cross-country datasets from Europe and North America. Her work has been published in the premier journal in Labour Economics. Dr. Lluís is also a very engaging and committed teacher with experience teaching and advising students from backgrounds as diverse as psychology, sociology, economics, industrial relations, management economics, and engineering. By integrating her research and teaching in Personnel Economics with the department’s undergraduate and graduate programs, Dr. Lluís will diversify and strengthen the areas of Labour Economics and Applied Statistics. Given that her research lies at the intersection of the fields of industrial psychology and industrial relations, her expertise will also enable multidisciplinary work and linkages with other departments.

NIMUBONA, Alain-Désiré, License in Economics and Management Sciences University of Burundi 1999, MSc in Applied Economics HEC Montreal (affiliated with the University of Montreal) 2003, currently a PhD Candidate at HEC Montreal, Assistant Professor, Department of Economics, July 1, 2007 to June 30, 2010. Mr. Nimubona’s research examines the impact of environmental regulation on the structure of the eco-industry – the specialized industry that supplies goods and services to deal with pollution and the conservation of environmental resources. Mr. Nimubona is interested in both empirical and theoretical research related to sustainable development. He has also been involved in public policy analysis, notably as a consultant at the Institute for Economic Development in Burundi (funded by the African Capacity Building Foundation, ACBF) and at the Canadian Policy Research Networks (CPRN). He has also participated in roundtables on various public policy issues in Canada, such as Nuclear Waste Management, Sustainable Development Governance, Youth Entrepreneurship, and Global Citizenship. Mr. Nimubona has produced academic articles and research reports in the areas of development economics, entrepreneurship, and environmental economics, including a recent article in the leading journal in population economics. He has won scholarships from the Canadian International Development Agency (CIDA) and the Trudeau Foundation, and an International Prize from the Belgian Development Cooperation. His commitment to solving important social problems fits very well

with the University of Waterloo's vision to allow its graduates to become a driving force for positive change in Canada and throughout the world. Specifically, his appointment strengthens the economics department's undergraduate and graduate programs which are designed to deliver real-world theory and the latest in applied practices to analyze a wide range of public policy issues.

NUSCHELER, Robert, Diploma* in Economics Free University of Berlin 1998, Doctor** of Economics Free University of Berlin 2003, Assistant Professor, Department of Economics, July 1, 2007 to June 30, 2010. Currently, he is a post-doctoral research fellow at McMaster University where he is engaged in a 'New Emerging Team' project funded by the Canadian Institute for Health Research. He is a specialist in industrial organization as applied to health care markets. Dr. Nuscheler analyzes timely problems in the health care sector and draws fundamental policy conclusions. His ability to combine economic theory with empirical applications not only enables him to inform policy makers about his research but also to collaborate with other health scientists in the economics department and beyond (e.g., the Faculty of Applied Health Sciences). His work has appeared in the best health economics journals and also found its way into very good general interest and industrial organization journals. Dr. Nuscheler's strength in applied economic theory nicely complements the applied profile of the economics department. He will contribute to the department's undergraduate and graduate programs in economics by applying economic theory to real world policy problems.

* equivalent to Master's degree

** equivalent to PhD

TIERNEY-HYNES, Rebecca, BA MA PhD English University of Toronto 2005, Assistant Professor, Department of English Language and Literature, July 1, 2007 to June 30, 2010. Dr Tierney-Hynes is a specialist in British literature of the Restoration and Eighteenth-Century. Currently, Dr Tierney-Hynes is an Assistant Professor at Suffolk University in Boston. She studies the relationship between philosophy and literature, particularly eighteenth-century theories of mind and their relationship to the rhetorical strategies of eighteenth-century fiction. She has published in leading journals. Dr. Tierney-Hynes is an experienced teacher, and she will contribute to the Department's joint mission to teach both literary and rhetorical studies, increasing historical depth in both areas. She will add one more to the growing number of links between literature and rhetoric in the English programs and in the Department's research culture.

XU, Dinghai, MA University of Windsor 2003, PhD candidate University of Western Ontario, Assistant Professor, Department of Economics, July 1, 2007 to June 30, 2010. Mr. Xu's research interests include Financial Econometrics, Time Series, Empirical Finance, and Statistical Finance and Risk Management. For many years, researchers have been trying to find a suitable model of asset returns and recently researchers have shown that mixtures of normal distributions mimic the data well. But the estimation of such models has been problematic because the likelihood function is not always bounded over its parameter space and researchers have been forced to use very computationally-intensive simulations to work with these models. One of the contributions in Mr. Xu's dissertation is a closed-form objective distance measure for this model. This solution, which surprises many people in economics and statistics, greatly simplifies model estimation and makes it likely that this model will be widely used in financial econometrics. Given the significance of his contributions, it is not surprising that Mr. Xu's research has been very well-received at conferences. Mr. Xu will contribute to the department's undergraduate and graduate programs by strengthening the areas of financial econometrics and empirical finance, and to the University's strength in applied statistics.

New Definite Term - Appointment

SEDRA, Mark, Hons BA Toronto 2000, MSC London School of Economics 2001, PhD candidate School of Oriental and African Studies, Research Assistant Professor, Department of Political Science and Centre for International Governance Innovation, January 1, 2008 to December 31, 2012. Mr. Sedra's fields of interest are Middle East Politics, Afghanistan, National Security, and International Governance. This is a joint appointment with CIGI, supporting the new PhD in Global Governance and activities of the Centre for International Governance Research.

Adjunct Appointments

GRAFFAM, Gray, Assistant Professor, Department of Anthropology, May 1, 2007 to August 31, 2007.

LAM, Mandy, Lecturer, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

SHVARTS, Alexander, Lecturer, Department of Sociology, September 1, 2007 to December 31, 2007.

Adjunct Reappointments

AFROS, Elena, Lecturer, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

BENNETT, Stephen, Lecturer, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

FLERAS, Augie, Professor, Department of Sociology, September 1, 2007 to December 31, 2007.

HUMPHREYS, Sara, Assistant Professor, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

KRELLER, Paul, Assistant Professor, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

MCARTHUR, Kathy, Lecturer, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

NOLAN, Kathleen, Lecturer, Department of Political Science, May 1, 2007 to August 31, 2007.

PACI, Tim, Lecturer, Department of English Language and Literature, May 1, 2007 to August 31, 2007.

PICARD, Derek, Lecturer, Department of Economics, May 1, 2007 to August 31, 2007.

PYNE, Derek, Assistant Professor, Department of Economics, May 1, 2007 to August 31, 2007.

ROBINSON, Jennifer, Lecturer, Department of Sociology, May 1, 2007 to August 31, 2007.

SCHWEITZER, David, Assistant Professor, Department of History, May 1, 2007 to August 31, 2007.

Withdrawal of Acceptance

WHALLEY, John, Professor, Department of Economics, May 1, 2007.

B. ADMINISTRATIVE APPOINTMENTS

MUIRHEAD, Bruce, Associate Chair, Graduate Studies, Department of History, May 1, 2007 to April 30, 2008.

TAYLOR, Lynne, Associate Chair, Undergraduate Studies, Department of History, January 1, 2008 to April 30, 2009.

ADMINISTRATIVE REAPPOINTMENTS

AGER, Sheila, Associate Dean for Undergraduate Studies, Faculty of Arts, May 1, 2007 to August 31, 2007.

BORITZ, Efrim, Ontario Chartered Accountants' Chair in Accounting, School of Accountancy, September 1, 2007 to August 31, 2012.

C. RESIGNATION

BURY, Rhiannon, Assistant Professor and Interim Director of Women's Studies, effective July 31, 2007.

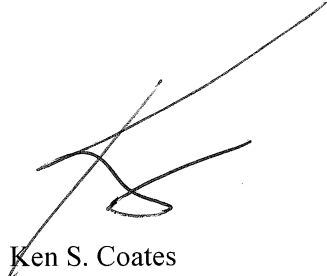
FOR APPROVAL BY THE BOARD OF GOVERNORS:

D. SABBATICALS

AGER, Sheila, Associate Professor, Department of Classical Studies, September 1, 2007 to August 31, 2008, twelve months at 100% salary.

MOUL, William, Associate Professor, Department of Political Science, September 1, 2007 to February 29, 2008, six months at 100% salary.

NGUYEN, Trien, Professor, Department of Economics, September 1, 2007 to August 31, 2008, twelve months at 85% salary.



Ken S. Coates
Dean, Faculty of Arts

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF ENGINEERING TO SENATE
May 22, 2007

For information:

A. APPOINTMENTS

New Probationary Term

AUCOIN, Marc, Assistant Professor, Department of Chemical Engineering, July 1, 2007 – June 30, 2010. PhD candidate Ecole Polytechnique de Montreal 2007; MASC University of Waterloo 2002; BASC University of Waterloo 2000. Prior to his PhD studies Marc was employed as a Technical Officer at the Biotechnology Research Institute, NRC in Montreal. Marc will bring to Chemical Engineering new and complimentary strengths in the area of Biochemical Engineering in particular in the area of vaccine production.

KARIM, Karim, Assistant Professor, Department of Electrical & Computer Engineering, July 1, 2007 – June 30, 2010. PhD University of Waterloo 2002; BASC University of Waterloo 1999. Dr. Karim has been an Assistant Professor in the School of Engineering Science, Simon Fraser University, British Columbia, since January 1, 2003. His research area is in the general category of Silicon Devices, Integrated Circuits, and VLSI, with particular interest in large area electronics and silicon devices and a strong focus on biomedical application.

Visiting Appointments

CHEN, Changying, Scholar, Department of Electrical & Computer Engineering, June 1, 2007 – December 31, 2007.

GIGOYAN, Suren, Scientist, Department of Electrical & Computer Engineering, April 1, 2007 – June 30, 2007.

GUTIERREZ MARTINEZ, Victor, Scholar, Department of Electrical & Computer Engineering, May 1, 2007 – April 30, 2008.

HAGHBEEN, Kamahldin, Scholar, Department of Chemical Engineering, March 19, 2007 – November 18, 2007.

SEYEDI, Heresh, Scholar, Department of Electrical & Computer Engineering, April 1, 2007 – March 31, 2008.

TALJAN, Gregor, Scholar, Department of Electrical & Computer Engineering, May 1, 2007 – April 30, 2008.

THULASIRAMAN, Krishnaiyan, Researcher, Department of Electrical & Computer Engineering, June 1, 2007 – December 31, 2007.

XIAO, Jian, Scholar, Department of Chemical Engineering, September 1, 2007 – August 31, 2008.

YANG, Wen, Scholar, Department of Electrical & Computer Engineering, September 1, 2007 – August 31, 2008.

Adjunct Appointments

AWARAJI, Christian, Associate Professor, Department of Electrical & Computer Engineering, March 1, 2007 – February 28, 2010.

COOK, David, Assistant Professor, Department of Chemical Engineering, May 1, 2006 – April 30, 2008.

PARDASANI, Ajit, Assistant Professor, Department of Systems Design Engineering, March 1, 2007 – February 28, 2008.

VERSEGHY, Diana, Researcher, Department of Civil & Environmental Engineering, January 1, 2007 – December 31, 2007.

Adjunct Reappointments

LAWSON, Scott, Associate Professor, Department of Mechanical & Mechatronics Engineering, May 1, 2007 – April 30, 2008.

SCHNURR, Daryl, Associate Professor, Engineering Undergraduate Studies Office, May 1, 2007– April 30, 3008.

WANG, Wilson, Assistant Professor, Department of Mechanical & Mechatronics Engineering, September 1, 2007 – August 31, 2010.

B. ADMINISTRATIVE APPOINTMENTS

ANJOS, Miguel, Associate Chair for Graduate Studies, Department of Management Sciences, May 1, 2007 – April 30, 2009.

KHAJEPOUR, Amir, WatCAR Director, Department of Mechanical & Mechatronics Engineering, January 1, 2007 – December 31, 2008.

MCPHEE, John, WatCAR Executive Director, Department of Systems Design Engineering, January 1, 2007 – December 31, 2008.

C. RETIREMENTS

BLAKE, Clifford, Lecturer, Department of Management Sciences, April 30, 2007.

FOR APPROVAL BY THE BOARD OF GOVERNORS

D. SABBATICAL

FULLER, David, Professor, Department of Management Sciences, July 1, 2007 –
December 31, 2007, six months at 100% salary.



Adel S. Sedra
Dean, Faculty of Engineering

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF ENVIRONMENTAL STUDIES TO SENATE
May 22, 2007

For Information:

A. APPOINTMENTS

Graduate Students Reappointed as Part-time Lecturers

KNUDBY, Anders, Department of Geography, May 1, 2007 to August 31, 2007.

OLSEN, Daniel, Department of Geography, May 1, 2007 to August 31, 2007.

B. SABBATICAL – FOR APPROVAL BY THE BOARD OF GOVERNORS

LYNES, Jennifer, Assistant Professor, Department of Environment and Resource Studies, July 1, 2007 to December 31, 2007, at 100% salary.



Deep Saini
Dean

/aew

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF MATHEMATICS TO SENATE
May 22, 2007

For information:

A. APPOINTMENTS

Definite Term -- Appointment -- full-time

DRAPACA, Corina (BS, 1995; MS 1996, both from Bucharest Univ.; PhD, 2002, Univ. of Waterloo), Lecturer, Dept. of Applied Mathematics, May 1, 2007 – April 30, 2008.

Definite Term -- Reappointment -- full-time

WOLCZUK, Dan, Lecturer, Dept. of Applied Mathematics, September 1, 2007 – August 31, 2008.

Continuing Lecturer

GRAHAM, Sandy (BMath, 1990, Univ. of Waterloo; BEd, 1990, Univ. of Western Ontario; MMath, 2006, Univ. of Waterloo), Lecturer, Office of the Dean, August 1, 2007.

KOELLER, Judith (BMath, 1993, Univ. of Waterloo; BEd, 1993, Univ. of Western Ontario; MMath, 1994, Univ. of Waterloo), Lecturer, Office of the Dean, June 1, 2007.

Visiting Appointments

WANG, Haiyan (Nanjing University of Posts and Telecommunications), Scholar, David R. Cheriton School of Computer Science, March 4, 2007 – August 25, 2007.

WU, Shujin (East China Normal University), Scholar, Dept. of Statistics and Actuarial Science, September 1, 2007 – August 31, 2008.

Adjunct Reappointments

CELMINS, Uldis, Lecturer, Dept. of Combinatorics and Optimization, May 1, 2007 – August 31, 2007.

RICE, Larry, Lecturer, Office of the Dean, May 1, 2007 – August 15, 2007.

WANG, Qing, Lecturer, Dept. of Applied Mathematics, May 1, 2007 – August 31, 2007.

WU, Shengli, Lecturer, Dept. of Pure Mathematics, May 1, 2007 – August 31, 2007.

Cross Reappointments

FORSYTH, Peter (Professor, David R. Cheriton School of Computer Science), in the Dept. of Applied Mathematics, May 1, 2007 – April 30, 2010.

WAN, Justin (Associate Professor, David R. Cheriton School of Computer Science), in the Dept. of Applied Mathematics, May 1, 2007 – April 30, 2010.

Graduate Students reappointed as Part-time Lecturers

LUSHMAN, Bradley, David R. Cheriton School of Computer Science, May 1, 2007 – August 31, 2007.
PORTMAN, Nataliya, Dept. of Applied Mathematics, May 1, 2007 – August 31, 2007.
STEBILA, Douglas, Dept. of Combinatorics and Optimization, May 1, 2007 – August 31, 2007.

Postdoctoral Fellows appointed as Part-time Lecturers

KALIMULLIN, Iskander, Dept. of Pure Mathematics, September 1, 2007 – December 31, 2007.

LE, Trieu, Dept. of Pure Mathematics, July 1, 2008 – June 30, 2009.

ROYDOR, Jean, Dept. of Pure Mathematics, July 1, 2007 – June 30, 2009.

Postdoctoral Fellows reappointed as Part-time Lecturers

YANG, Dilian, Dept. of Pure Mathematics, September 1, 2007 – August 31, 2008.

B. ADMINISTRATIVE APPOINTMENTS

CLARKE, Charles, Director, Software Engineering Program, July 1, 2007 – June 30, 2010.

C. RESIGNATIONS

CHAU, Albert, Assistant Professor, Dept. of Pure Mathematics, effective June 30, 2007.

D. SABBATICAL

ALREADY APPROVED BY THE BOARD OF GOVERNORS

CUTLER, Colleen, Professor, Dept. of Statistics and Actuarial Science, July 1, 2007 – June 30, 2008, with 85% salary.

FAN, Guangzhe, Assistant Professor, Dept. of Statistics and Actuarial Science, July 1, 2007 – December 31, 2007, with 100% salary. This is an early sabbatical.

GEL, Yulia, Assistant Professor, Dept. of Statistics and Actuarial Science, September 15, 2007 – March 14, 2008, with 100% salary.

MOOSA, Rahim, Assistant Professor, Dept. of Pure Mathematics, July 1, 2007 – December 31, 2007, with 100% salary. This is an early sabbatical.

SHIODA, Romy, Assistant Professor, Dept. of Combinatorics and Optimization, September 1, 2007 – February 29, 2008, with 100% salary. This is an early sabbatical.



Thomas F. Coleman
Dean

UNIVERSITY OF WATERLOO
REPORT OF THE DEAN OF SCIENCE TO SENATE
May 22, 2007

For information:

A. APPOINTMENTS

Tenured

WAITE, Nancy, Associate Professor, School of Pharmacy, February 1, 2007. [B.Sc. Pharm., University of Toronto (1986); D. Pharm., Wayne State University (1988).] Dr. Nancy Waite brings rich experience in clinical pharmacy practice including pharmacotherapy, academic leadership, research, and the development of curricular programs. Dr. Waite was an Associate Professor at the Leslie Dan Faculty of Pharmacy, University of Toronto where she developed a plan for the implementation of an entry-level Pharm D. Program. Prior to this, Nancy directed the Department of Pharmacy Practice at the Albany College of Pharmacy. Dr. Waite is assuming the critical role of Associate Director, Practice-Based Education. She will develop the vision, program objectives and long-range plan for practice-based education in the School. She will guide initiatives relating to the co-op experiential program, direct patient care rotations, professional lab courses, continuous professional development and post-graduate integrated learning and clinical research opportunities with the satellite McMaster School of Medicine and the UW School of Optometry.

Definite Term Appointment – Full-Time

HUANG, Xiao-Dong, Research Associate Professor, Department of Biology, March 1, 2007 to February 28, 2010. [B.Sc., Heilongjiang University of Agriculture & Reclamation, China (1982); M.Sc., University of Waterloo (1991); Ph.D., University of Waterloo (1995); Certificate, Technology Entrepreneurship, University of Toronto (1999) .] After completing postdoctoral studies at Wright State University in Ohio, Dr. Huang joined the department of Biology at Waterloo as a Research Associate. As part of the current appointment he will undertake research on contaminant dynamics and terrestrial bioremediation. He will also be responsible for management of the Faculty of Science's undergraduate 2 + 2 program with partner universities in China and he will manage research development in China for the Faculty.

PARK, Young-Jin, Research Assistant Professor, Department of Earth & Environmental Sciences, February 1, 2007 to December 31, 2007. [B.Sc., Seoul National University, Korea (1996); M.Sc., Seoul National University, Korea (1998); Ph.D., Seoul National University, Korea (2002).] Dr. Park has been a postdoctoral fellow in the Department of Earth Sciences since March 2002. He is a hydrogeologist with a particular interest in flow and solute transport in fractured rock, and since joining the University of Waterloo, has participated in projects concerning integrated surface water and groundwater flow and contaminant transport, geologic disposal of radioactive waste and groundwater vulnerability. Dr. Park is currently a co-investigator on two projects held at the University of Waterloo and funded by the Korea Ministry and Science and Technology. He is a highly productive research and has become a key member of our modelling group, assisting graduate students and serving on the supervisory committees of several graduate students.

Definite Term – Reappointment – Full-Time

THOMPSON, Russell, Assistant Professor, Department of Physics & Astronomy, May 1, 2007 to March 31, 2009.

Visiting Appointments

ATES, Yusuf, Scientist, Department of Earth & Environmental Sciences, April 9, 2007 to April 8, 2008.

CUI, Shufen (Rina), Scientist, Department of Chemistry, July 1, 2007 to June 30, 2008.

HEID, Matthias Johannes, Scholar, Department of Physics & Astronomy, January 1, 2007 to December 31, 2008.

Adjunct Appointments

PETERSON, Carol A., (Professor Emeritus), Professor, Department of Biology, November 1, 2006 to October 31, 2009.

SIBLEY, Paul K., Associate Professor, Department of Biology, April 1, 2007 to March 31, 2010.

Adjunct Reappointments

HEAMAN, Larry M., Professor, Department of Earth & Environmental Sciences, May 1, 2006 to April 30, 2009.

Staff Appointment to Faculty

FISHER, Jacob, Lecturer, Department of Chemistry, May 1, 2007 to August 31, 2007.

Changes in Appointments

DAUB, Elisabeth, Lecturer, Department of Chemistry, appointment converted from Definite Term to Continuing, effective July 1, 2007.

DUPONT, Christine, Lecturer, Department of Biology, appointment converted from Definite Term to Continuing, effective July 1, 2007.

Graduate Student Appointed as Lecturer

LYNCH, Michael D.J., Lecturer, Department of Biology, September 1, 2007 to December 31, 2007.

Post-doctoral Fellow Reappointed as Lecturer

CLARK, Scott R.D., Lecturer, Department of Biology, September 1, 2007 to December 31, 2007.

B. ADMINISTRATIVE APPOINTMENT

HUANG, Xiao-Dong, Director, China 2+2 Program, Faculty of Science, March 1, 2007 to February 28, 2010.

C. RESIGNATION

PARKER, Beth L., Research Associate Professor, Department of Earth & Environmental Sciences, effective April 1, 2007.

FOR APPROVAL BY THE BOARD OF GOVERNORS**D. SABBATICAL**

DULEY, Walter W., Professor, Department of Physics & Astronomy, September 1, 2007 to August 31, 2008, 100% salary arrangement.

GLICK, Bernard R., Professor, Department of Biology, January 1, 2008 to December 31, 2008, 100% salary arrangement and 4 for 4 exchange for administrative leave January 1, 2009 to April 30, 2009, 100% salary arrangement.

SMITH, Ralph, Professor, Department of Biology, January 1, 2008 to December 31, 2008, 91.9% salary arrangement.



D.G. Dixon
Dean

DGD/lw

University of Waterloo

SENATE

May 22, 2007

For Approval

1. COMMITTEE AND COUNCIL APPOINTMENTS

Motion:

That Senate approve the following appointments:

Senate Undergraduate Council: Peter Deadman (Geography) and Mavis Fenn (St. Paul's United College) as faculty representatives, terms from May 1, 2007 to April 30, 2009.

University Committee on Student Appeals: Tristanne Connolly (St. Jerome's University) and Merrin Macrae (Geography) as faculty representatives, terms from May 1, 2007 to April 30, 2009.

University of Waterloo

SENATE

May 22, 2007

For Approval

DELEGATION OF AUTHORITY

Since the roster of graduands will not be available until after the regular meeting of Senate in May, and approval is required before the June meeting, Senate is asked to delegate approval of the roster to its Executive Committee.

Motion:

That the Senate Executive Committee, on behalf of Senate, approve the lists of candidates for degrees, diplomas and certificates as recommended by the Faculty Councils and the Dean of Graduate Studies, and that the Senate Executive Committee, on behalf of Senate, authorise the Chair, the Registrar and the Dean of Graduate Studies to add to or change the lists of candidates for degrees, diplomas and certificates as approved at the meeting of the Senate Executive Committee on June 4, 2007.

**University of Waterloo
Capital Projects Update
May 2007**

Project	Location	Area (GSF)	Construction		Budget (\$ millions)
			Start Date	Completion	
Photovoltaic Research Centre	west of Central Services Phase 1	15,800	Mar-06	Apr-07	\$4.0
	Phase 2 - shell only	28,800	Jan-07	Jan-08	\$2.8
School of Accountancy	Addition to Hagey Hall	57,500	Mar-07	Sep-08	\$12.3
CPH Addition	above multi-media centre	5,700	Jun-07	Jan-08	\$1.2
PAS Addition	north side of PAS	29,700	Jun-07	Sep-08	\$7.3
Optometry Addition/Renovations	south side of OPT	38,000	Sep-07	Jan-09	\$13.4
School of Pharmacy	Kitchener	120,000	Jun-06	Jan-08 (partial)	\$38.0
School of Medicine	Kitchener	60,000	Sep-07	Sep-09	\$20.0
Quantum-Nano	north of Biology II	261,000	Oct-07	Sep-10	>\$100.0
Research Centre	R+T Park	65,000	Jun-07	Mar-08	\$8.4
Engineering Expansion - Phase I	Parking Lot B - ECH	150,000	Mar-08	Jan-10	\$48.0

D. Huber

University of Waterloo
SENATE GRADUATE & RESEARCH COUNCIL
Report to Senate
May 22, 2007

Senate Graduate & Research Council met on March 26 and April 16, 2007 and agreed to forward the following items to Senate for approval and information, as indicated [*further details are available from the Secretary, ext. 35924.*]

FOR APPROVAL

NEW CENTRE

Faculty of Arts; Faculty of Environmental Studies
Centre for Global Governance Research

Motion: To approve the establishment of the Centre for Global Governance Research for an initial period of five years (June 2007 to May 2012) [excerpt from the Centre proposal appended; see Attachment #1].

With the onset of “globalization”, problems of governance and international crisis management have emerged as issues which extend beyond national boundaries and control. Global governance is about power and authority in the international arena, about who makes the rules affecting billions of ordinary lives, and what norms ought to be involved in the management of global society. It is focused not just on state interactions, but also on civil society and other actors that contribute to the establishment and functioning of global rules, norms and institutions.

The study of global governance is a rapidly growing interdisciplinary field of research where scholars and practitioners from various academic and professional backgrounds come together to focus on governance issues relating to fundamental problems in international affairs. In this field, policy-relevant research and teaching about problems of global governance must go beyond the rigidities and formalities of established disciplinary boundaries to be effective. Global governance issues are particularly rooted in complex webs that span a variety of disciplines, including economics, politics, history, and environmental studies. The proposed Centre is designed to meet the demand for interdisciplinary research and training in this rapidly emerging field.

The proposed Centre for Global Governance Research at the University of Waterloo will facilitate interdisciplinary research on five main themes: Global Political Economy; Global Environment; Peace and Security; Global Justice and Human Rights; Multilateral Institutions and Diplomacy. The Centre will work in close collaboration with the Centre for International Governance Innovation (CIGI), especially on research projects, and will play a role in providing an institutional linkage between the University and CIGI for students enrolled in the MA and PhD programs in Global Governance. The links between the proposed Centre and CIGI will be strong; there are already a number of proposed core members of the UW Centre who are affiliated with CIGI. They include: John English (History), Executive Director of CIGI; Andrew Cooper (Political Science), Distinguished Fellow and Associate Director of CIGI; Eric Helleiner (Political Science) and Jennifer Clapp (Environmental Studies; director designate of the Centre), CIGI Research Chairs; Ramesh Thakur (Political Science), Distinguished Fellow; and Bessma Momani (Political Science), Senior Research Fellow. It is also anticipated that CIGI will play a role in co-hosting and co-financing research projects and workshops with the proposed UW Centre. This close relationship will provide opportunities for students and faculty at UW to become involved in the work of CIGI. The proposed Centre will take on University-specific roles, and will not duplicate the efforts of CIGI. These University-specific tasks include: facilitate research on global governance amongst faculty from different disciplines; serve as a focal point for the new graduate programs in Global Governance; provide training opportunities for graduate students; apply for research and conference grants from granting agencies such as SSHRC.

NEW PROGRAMS

Faculty of Science Department of Biology Master of Biology (MBiol)

Motion: To approve the Master of Biology (MBiol) Degree Program, as described below.

Objective

The objective of the program is to provide detailed, current background knowledge in specific aspects of biology to professionals, particularly secondary school teachers. The program will review the basic principles of the major areas of biology (Animal Physiology and Genetics, Ecology, Microbiology and Plant Biology) and provide novel information (including current topics and controversies) to update their skills allowing them to apply up-to-date and state-of-the-art knowledge in the performance of jobs. Graduates of this program will help to improve post-secondary education in biology within the Province of Ontario and beyond.

This objective is achieved through advanced course work in specific subjects of biology that will include written assignments and classroom presentations, as well as the completion of a major research paper under the supervision of a faculty advisor. Entering students will already have the strong science skills provided by a Bachelor of Science degree and, likely, a Bachelor of Education as well. This program is not intended to prepare students for a career in research, doctoral studies, or a professional designation.

Special Matters and Innovative Features

The innovative feature of this Master's program is the timing and structure of the courses. Courses will be offered during July every summer for 2.5 hours per day, five days a week, for two weeks. Three courses will be offered each morning and three courses will be offered each afternoon with one set of six courses being offered in odd numbered years and another set of six being offered in even numbered years. Students will be able to register in one morning course and one afternoon course per year. The minimum time required for completion of all degree requirements is 24 months and two weeks. Convocation would occur in the Fall. This structure is tailored specifically to secondary school teachers, but could be utilized by other professionals.

Program Regulations and Courses

The program in question is a course-based program designed to run in a short time frame for professionals. The courses themselves will be designed to increase the breadth and depth of knowledge of the students in each particular area. Additionally, each student will have a faculty advisor and a second reader who will assist with the preparation of their major paper. The program will have a one-evening symposium during the two weeks of classes where students can present their major research paper to fellow students and faculty members, as well as any interested research-based graduate students. This program is intended to provide a rich educational experience for students who, in turn, will provide superior post-secondary education to their students.

Program Regulations

This program is designed for students who work full time and wish to upgrade their skills while working. The University does not provide funding for students in this program; they are expected to be self-supporting.

General University of Waterloo, Faculty of Science and Department of Biology policies apply to the students enrolling in the program. Policies specific to the new program are described below. A faculty

member from Biology will be appointed as the Program Director and will administer the program and serve as academic advisor.

Admission

Admission normally requires:

- a Bachelor of Science Degree (or equivalent);
- a cumulative B average (75%) in the last two years of a four-year Bachelor of Science program (or equivalent).

Applicants holding degrees from institutions outside Canada may be required to submit Graduate Record Examination scores (GRE, Analytical and Quantitative) with their application.

Degree Requirements

To receive a MBiol, a student must pass six of the specialized courses and complete the major research paper within one calendar year of registration for the course. Students will select a supervisor and together they will select a second reader. Both the supervisor and the second reader will advise the student on the selection of a topic and the preparation of the major research paper through a series of meetings throughout the year. A presentation of the findings of the major research paper to other students enrolled in the program and faculty from the department will be a milestone in the completion of the requirements for the degree. Students will receive feedback from this presentation, but no mark will be assigned.

Progress Reports

Every year after marks are submitted for each course, the Director of the Program will conduct a review of academic progression. This will involve reviewing the marks assigned and ensuring milestones have been met. A decision will be made regarding progression to the next year of the program or graduation, and a transcript will be sent to the student to reflect the decision of the Director.

Major Research Paper Evaluation Procedures

The major research paper will be listed as a course students must register for at least one year before graduation (usually the second summer of their degree). The topic will be chosen in conjunction with the faculty supervisor in the July session of the student's second year. Two copies of the completed paper must be submitted to the Director by May 30th prior to the student's third summer semester for distribution to the supervisor and second reader, who will critically evaluate the paper and each provide a mark. These two marks will be averaged to produce the student's final mark for the paper.

Distance Delivery

While this program will not initially be offered by distance education (DE), we anticipate that, once the courses are developed and running, appropriate measures to offer this program through DE will be taken.

Part-time Studies

Given that students in this program are anticipated to be enrolling while employed full time, it is very likely that some will want to enrol part-time and take only one course per year. This will not change the delivery of the program in any way other than to extend the time to completion.

**Faculty of Science
Department of Biology
Graduate Diploma in Professional Biology**

Motion: To approve the Graduate Diploma in Professional Biology as described below.

Students who complete four courses in the Master of Biology program described above but elect to go no further, will be awarded a Graduate Diploma in Professional Biology.

NEW CERTIFICATES

**Faculty of Engineering
Department of Mechanical & Mechatronics Engineering
Certificates in Design, Fire Safety and Green Energy**

Motion: To approve three Certificate Programs associated with the MEng program in the areas of Design, Fire Safety and Green Energy, as described below.

Objectives

- to produce engineers with more specialized technical training and a specific focus that is recognized by the award of a Certificate
- to offer a course-work professional development graduate program for practicing engineers to be formally trained in the areas of design, fire safety and green energy
- to provide new immigrant, foreign-trained engineers with a degree program that facilitates entry to the Canadian workforce in important technical areas of significant national interest
- to provide newly graduated engineers with an opportunity to pursue graduate education in the areas of design, fire safety and green energy

Course Requirements

Design

Mandatory Courses

ME 729 Special Topics in Advanced Machine Design Methods: Advanced Design
ME 729 Special Topics in Advanced Machine Design Methods: Design Engineering Project 1
ME 729 Special Topics in Advanced Machine Design Methods: Design Engineering Project 2

Specific Courses [three from the following list]

ME 620 Mechanics of Continua
ME 631 Mechanical Metallurgy
ME 632 Experimental Methods in Materials Engineering
ME 651 Heat Conduction
ME 652 Convective Heat Transfer
ME 653 Radiation Heat Transfer
ME 662 Advanced Fluid Mechanics
ME 663 Computational Fluid Mechanics
ME 664 Turbulence
ME 720 Special Topic in Solid Mechanics: Advanced Finite Element Analysis

ME 780 Special Topics in Mechatronics: Mechatronic Design
ME 780 Special Topics in Mechatronics: Modelling and Control of Mechatronic Systems

General Courses

- any two University graduate-level courses subject to the approval of the department

Fire Safety

Mandatory Courses

ME 765 Special Topics in Fluid Mechanics: Fundamental Fire Dynamics
ME 765 Special Topics in Fluid Mechanics: Enclosure Fire Dynamics
ME 770 Special Topics in Numerical Methods, Fluid Flow and Heat Transfer: Fire Modelling

Specific Courses [three from the following list]

CIVE 601 Engineering Risk Analysis
ME 720 Special Topics in Solid Mechanics: Fire Resistance
ME 765 Special Topics in Fluid Mechanics: Advanced Concepts in Design for Fire Safety
ME 765 Special Topics in Fluid Mechanics: Smoke Movement
ME 765 Special Topics in Fluid Mechanics: Human Behaviour in Fires
ME 760 Special Topics in Thermal Engineering: Industrial Fire and Explosion Safety
ME 770 Special Topics in Numerical Methods, Fluid Flow and Heat Transfer: Fire Testing

General Courses

- any two University graduate-level courses subject to the approval of the department

Green Energy

Mandatory Course

ME 760 Special Topics in Thermal Engineering: Energy and the Environment

Specific Courses [three from the following list]

ME 738 Special Topics in Materials: Hydrogen Storage Materials
ME 751 Fuel Cell Technology
ME 753 Solar Energy
ME 770 Special Topics in Numerical Methods, Fluid Flow and Heat Transfer: Wind Energy

General Courses

- any four University graduate-level courses subject to the approval of the department

PROGRAM CHANGES

Faculty of Environmental Studies

School of Planning

Master's of Applied Environmental Studies (MAES)

Motion: To change the requirements for the MAES, effective September 2007, from “seven one-term graduate courses (three required courses and four elective courses), three milestones (teamwork strategies in planning workshop; project proposal development workshop; research paper plan – oral presentation) and a research project” to “eight one-term graduate courses (five required and three elective courses).”

Rationale: The intent of the revisions is to provide suitably qualified students with a stimulating, academically sound, course-based professional Master's degree program that equips them to further their planning related careers. Eliminating the individual research project requirement means that the project proposal development workshop, research paper plan and the oral presentation of the research paper plan is no longer relevant. The program milestone of teamwork strategies will now be included in orientation.

Motion: To add the following to the admission requirements, effective September 2007: "Normally, two years work in a planning-related work experience; OR, normally two years worth of combined work experience and planning-related experience obtained by being a volunteer, intern or equivalent position; OR, registered in a program at another university that is part of a dual degree program with the MAES degree program."

Rationale: The revised MAES plan has been designed to build on students' previous planning-related experience; this is particularly true in the capstone course – Plan 702, Critical Assessment of Theories, Methods and Practices of Planning.

Faculty of Engineering
Mechanical & Mechatronics Engineering
Master's of Engineering (MEng)

Motion: To change the course requirements in the MEng Program, effective May 1, 2007 from ten to eight graduate-level courses and a mandatory CR/NCR communication course (normally taken in the first term of the program). The communication course can be waived at the discretion of the department.

This change is proposed to bring the MEng requirements in line with other engineering programs offered at Waterloo and with other universities in Canada. The communication course is added to ensure graduates have an acceptable level of communication skills.

FOR INFORMATION

On behalf of Senate, Council approved:

- renewal for a further five years of the **Institute for Quantum Computing**
- a new Planning course (PLAN 702 – Critical Assessment of Theories, Methods and Practices of Planning)
- two scholarships: W.K. Thomas Graduate Scholarship and the Ontario International Education Opportunity Scholarship.

/tlc

Ranjana Bird
Dean of Graduate Studies

Alan George
Interim, Vice-President, University Research

**Centre for Global Governance Research
Excerpt from the Detailed Proposal Submitted to
Senate Graduate & Research Council**

Benefits and Opportunities

The main activities of the proposed Centre will be the following:

Facilitate Interdisciplinary Research on Global Governance at UW: The proposed Centre will act as a research hub on the Waterloo campus, bringing together faculty from different disciplines doing work on global governance. The development of the new graduate programs (MA and PhD) in Global Governance has highlighted the range of faculty and representation of different disciplines in this exciting and growing research area. Faculty members from History, Political Science, Economics, Philosophy, Environment and Resource Studies, Geography, and Planning have all expressed interest in becoming core members of the Centre. The main research activities of the Centre will focus around the themes of institutions and diplomacy, international political economy, global environment, peace and security, and global justice and human rights. The Centre will encourage collaborative research amongst UW faculty and between UW faculty and other researchers off campus, and will liaise with and have some overlapping research projects with the Centre for International Governance Innovation (CIGI). The Centre aims to attract Post-doctoral Fellows conducting research on global governance. These Fellows will likely be funded by SSHRC or other external agencies.

Serve as a Focal Point for Global Governance Graduate Programs: The Centre for Global Governance Research will serve a vital role as a focal point for the new graduate programs in Global Governance. The proposed Centre will provide an intellectual base to bring together faculty and students involved in the MA and PhD programs. The role of acting as an intellectual base is essential as the interdisciplinary nature of the graduate programs means that will it draw together a number of faculty members from different disciplines who might not otherwise have a chance to interact. The proposed Centre will serve this vital function which will be key to maintaining well-functioning and cohesive graduate programs. The Centre will host an annual reception for both faculty and graduate students in these programs which will be held early in the fall term – so that the faculty from different departments can meet and interact with the new and ongoing students in the program. This annual gathering will serve to create a sense of community amongst the faculty and students, which is important because the program is not housed in any one department on campus. It will also sponsor speakers and other events to bring together students and faculty in this area of research.

Provide Student Training Opportunities: The proposed Centre will play an important role in the training of graduate students by direct employment and facilitation of other opportunities for research work. Students in the MA and PhD Global Governance programs will automatically become student members of the Centre; senior undergraduate students can also apply to become student members.

Apply for Research and Conference Grants: The proposed Centre will facilitate research opportunities and conference sessions for grant-holders from funding agencies such as SSHRC. Since non-university-based centres such as CIGI cannot easily host SSHRC grants, it is important that UW have a research centre which can facilitate the administration of such grants for which our faculty members may apply.

Fit with UW's Strategic Plan

The University of Waterloo has long-term strategic plans for the “internationalization” of the University. These were articulated in the 1999 report, *Beyond Borders: A Strategy for Enhanced Internationalization at the University of Waterloo*, and recently reiterated in the follow-up report issued in June 2005 entitled

Strengthening our Global Connections: The Next Phase of Internationalization at UW. The goals of the University in this area include internationalizing curricula, research activities, and building international partnerships. One of the key aims is to make UW an internationally recognized institution within the next decade.

The new Centre (along with the MA and PhD programs) will contribute to achieving the University's goals of internationalizing research and teaching and to becoming an internationally recognized institution. By focusing on global governance issues and establishing partnerships with other research centres around the world that also focus on global affairs, the Centre for Global Governance Research will be an important component of Waterloo's internationalization strategy in the social sciences. In conjunction with the new graduate programs, the proposed Centre, through its facilitation of global governance research and international networking, will help put the University of Waterloo on the map in this field, not just in Canada, but globally.

The proposed Centre will contribute directly to a number of the recommendations made in the 2005 report, including most directly:

- Recommendation #3: Strengthen the profile and coordination of international activities.
- Recommendation #4: Use internationalization as a way for UW to contribute more to the global community.
- Recommendation #7: Enhance UW's international research profile.
- Recommendation #8: Internationalize the curriculum to a greater degree.
- Recommendation #13: Promote global proficiency among UW students.
- Recommendation #14: Internationalize the campus.
- Recommendation #15: Strengthen international partnerships.

The Proposed Centre for Global Governance Research also will contribute to the University's *Sixth Decade Plan* (2007-2017), which calls for global engagement and leadership. The Plan promotes international and interdisciplinary research and teaching at UW, and endorses the creation of new research institutes and centres to help fulfil this goal.

Mission

The mission of the Centre for Global Governance Research is to advance research in the rapidly expanding interdisciplinary field of global governance. The Centre aims to be a focal point for faculty from different disciplines working on global governance research, as well as a hub for graduate students enrolled in the Global Governance MA and PhD programs. The research and training agendas of the Centre support UW's strategic plans to "internationalize" the institution.

Research Focus

Research at the Centre will foster innovative interdisciplinary research around five core themes. Faculty members of the Centre will be encouraged to apply for collaborative funding for projects, which will provide opportunities for graduate students in the MA and PhD programs.

1) Global Political Economy

Economic globalization has the potential both to foster economic growth as well as to exacerbate inequalities both within and between states. Given the nature of global trade, investment, and financial relations, it is clear that rules and norms are necessary to govern the global economy. Key questions that will be addressed under this research theme include:

- Who sets those rules that govern the global economy?
- How do global economic rules and institutions affect regions, countries, and communities around the world?

2) Global Environment

It is increasingly recognized that environmental protection is vital for a sustainable world. The goal of sustainable development has been a central theme in global institutions, most recently articulated at the World Summit on Sustainable Development. Key research questions include:

- How are environmental goals promoted at the global level?
- Who determines how these goals should be addressed?
- Are environmental goals compatible with economic globalization?

3) Conflict and Security

International security concerns are extremely important in shaping global governance. The post-Cold War era has seen an increase in concern about global terrorism, "human security", as well as domestic and regional conflict, particularly in poorer regions of the world. Key research questions include:

- What are the key security concerns in today's globalized world?
- In what ways have security tensions shaped the way different countries respond to global efforts to mitigate and address conflict *via* global institutions and norms?
- What roles have global institutions and global civil society played in the promotion of peace and conflict mitigation?

4) Global Justice and Human Rights

The promotion of global justice and human rights has become a central feature of global governance initiatives in recent years. These issues are inextricably intertwined with the other areas of focus for the Centre. Key research questions include:

- How are global justice and human rights defined and operationalized in global norms and institutions?
- In what ways do globalization, conflict, environmental degradation, and multilateral institutions impact (positively or negatively) global justice and human rights?

5) Multilateral Institutions and Diplomacy

There has been a proliferation of global institutions and agreements in the past 50 years to help oversee the development of global rules and norms in a variety of issue areas. But the process of establishing these structures of governance has not always been smooth. Key questions that will be addressed under this research theme are:

- What are the tensions between global institutions and individual states, civil society, and other relevant actors?
- What are the implications of these tensions for international diplomacy and governance?

Organizational Structure

Director

The Centre will be led by a director, reporting to the Vice-President, University Research. The Director will be appointed by the Vice-President, Academic & Provost on the recommendation of the Vice-President, University Research for a fixed term of up to five years, normally renewable once. The Director is responsible for the overall management of the Centre, the preparation of its annual budget, supervision of Centre employees (if any), and for guiding the research agenda of the Centre, with input from its membership.

Executive Committee

There will be an Executive Committee that will provide advice to the Director and Vice-President, University Research. The Executive Committee will review the annual budget and provide a recommendation to the Vice-President, University Research. It is anticipated that this Committee will meet once or twice per year, or as often as necessary.

Membership

- chaired by the Vice-President, University Research
- Director of the Centre
- one representative from the Economics Department
- one representative from the History Department
- one representative from the Political Science Department
- two representatives from the Faculty of Environmental Studies (drawn from departments with faculty members participating in the Centre)
- director of the MA and PhD programs in Global Governance
- one representative from the Centre for International Governance Innovation (CIGI)

Research Committee

Membership to be determined – will be drawn from membership of the Centre. This Committee will meet once per term to discuss research activities and funding proposals.

Board

There will be an advisory Board that will provide advice on the general and financial management of the Centre, its scientific direction, etc. The Chair is selected in a manner acceptable to the Board membership, and serves for a period of up to three years, normally renewable once.

Membership

- Vice-President, University Research
- Director of the Centre
- Dean of Arts
- Dean of Environmental Studies

Reporting

The Centre for Global Governance Research will report to the Vice President, University Research.

Membership

The following are the proposed categories of membership:

Core Members: Core members are faculty-member researchers at UW who are engaged in research projects that focus directly on issues of global governance.

Student Members: Student members are UW students who are enrolled in the new graduate programs (MA and PhD) in Global Governance. Senior undergraduate students with a keen interest in global governance issues can also apply to become student members.

Affiliate Members: Affiliate Members are non-UW researchers who contribute to the Centre by participating in one or more research projects affiliated with the Centre.

Partners: The Centre for International Governance Innovation, based in Waterloo, will be a key partner of the proposed Centre for Global Governance Research.

UNIVERSITY OF WATERLOO
SENATE UNDERGRADUATE COUNCIL
Report to Senate – May 22, 2007

Senate Undergraduate Council met on April 10, 2007 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. 33183*].

FOR APPROVAL [*all effective September 1, 2008*]

PROGRAM CHANGES

Faculty of Arts

All Bachelor of Arts Academic Programs

Motion: To rename the *Group A and B Requirements* to the *BA Breadth Requirements* and revise them as follows:

Current Calendar Text: (fundamentals given, full text: www.ucalendar.uwaterloo.ca/ARTS/ba_degree_req.html)

GROUP A and B REQUIREMENTS

All Bachelor of Arts students must meet the Faculty of Arts Group A and B requirements. Group A comprises courses in the humanities, and Group B comprises courses in the social sciences.

In order to complete the Group A and B requirements an Arts student must successfully complete:

- a minimum of 3.0 units (six courses) from Group A which must include:
 - a minimum of 1.0 unit (two courses) from Group A(i) (see note 1, ...);
 - a minimum of 1.0 unit (two courses) from Group A(ii) (see note 2, ...);
 - a minimum of 1.0 unit (two courses) from any of the subjects listed in A(i), A(ii) or A(iii).
- a minimum of 2.0 units (four courses) from Group B of which:
 - no more than two courses may be in the same discipline. (A student may take more than two courses in a specific discipline in Group B but only two of them will be applied towards the fulfilment of the Group B requirement.)

Faculty of Arts Group Requirements	
Group A (i)	English, History, Philosophy (see <i>Approved Alternatives</i> , Note 1 ...)
Group A (ii)	<i>Courses in a Language other than English:</i> Chinese, Croatian, Dutch, French, German, Greek, Hebrew, Italian, Japanese, Korean, Latin, Polish, Portuguese, Russian, Spanish, Ukrainian (see <i>Approved Alternatives</i> , Note 2 ...)
Group A (iii)	Classical Studies, Drama, Fine Arts, Music, Religious Studies, Speech Communication

Revised Calendar Text:

BA Breadth Requirements

All Bachelor of Arts students must meet the BA Breadth Requirements:

Fine, Performing, and Communication Arts	0.5 unit	DAC, DANCE, DRAMA, FINE, MUSIC, SPCOM.
Humanities	1.0 unit	CLAS, ENGL, HIST, PHIL, RS.
Languages and Cultures	1.0 unit	CHINA, CROAT, DUTCH, EASIA, FR, GER, GRK, ITAL, ITALST, JAPAN, JS, KOREA, LAT, POLSH, PORT, REES, RUSS, SPAN, UKRAN. See Note 3 below.
Social Sciences	2.0 units	ANTH, ECON, GEOG, INTTS, ISS, PSCI, PSYCH, SOC. See Note 1 below.
Transdisciplinary Studies	0.5 unit	AFM, ARTS, CMW, HRM, HUMSC, INTST, LS, NATST, PACS, SMF, SOCWK, SPD, WS. Also any course taken in another UW Faculty. See Note 4 below.

Notes:

1. No more than two courses (1.0 unit) in the same discipline may count towards the Social Sciences requirement.
2. Cross-listed courses may be designated to fulfill any **one** requirement. For example, a student registered in PACS 203/HIST 232 may receive credit for **either** the Transdisciplinary Studies requirement **or** the Humanities requirement, but not for both. Where the credit is applied depends on the rubric under which the student registers; if, subsequent to registration in the course, the student wishes to have credit applied to the other (cross-listed) rubric instead, s/he may petition the Examinations and Standings Committee (see under “Examinations and Standings”).
3. Students enrolled in the Honours Arts & Business program and those enrolled in the Rhetoric & Professional Writing (RPW) plan offered by the English Department must take two language courses (*i.e.*, culture courses taught in English will not fulfill the requirement for these students). Arts & Business students must take two courses in the same language; RPW students may take two courses in different languages.
4. Because PD courses are not regular academic courses, they do not fulfill any of the breadth requirements.

Rationale: It became clear over the past several years, with extensive changes in the Faculty of Arts, that the Faculty’s existing “Group requirements” no longer reflected the shape of the Faculty. In their current form, the A and B requirements are a snapshot of the Faculty as it was a quarter of a century ago. They have not been revised since, while the Faculty has changed dramatically, both in terms of its size and teaching activity, and in terms of the number and nature of its programs and departments. The proposed new text resolves this issue and better conveys the Faculty’s requirements.

NEW ACADEMIC PLANS

Faculty of Arts

Renison College

Applied Language Studies Option; Applied Language Studies Diploma

Motion: To approve the new plan and diploma as described below:

Applied Language Studies (APPLS) is an interdisciplinary area of study for those with a special interest in second (or foreign) language learning and teaching and is especially appropriate for those considering careers in teaching, immigration and settlement, social work, social development studies, and immigration law. APPLS is administered by Renison’s English Language Institute in cooperation with the following participating UW departments and disciplines: Germanic & Slavic Studies, French Studies, Spanish & Latin American Studies, East Asian Studies, Italian Studies (St. Jerome’s), Religious Studies, English, Anthropology, Classical Studies, Philosophy, Psychology, Sociology, and Drama & Speech Communication.

There are two different academic plans open to students participating in APPLS: 1) the Option and 2) the Diploma.

Applied Language Studies Option

The APPLS Option is available to students in degree studies at the University of Waterloo.

The APPLS Option requires the successful completion of the following:

1. At least five academic course units (ten courses) in APPLS Core, Approved Language, and Approved Applied Language Studies courses with a minimum cumulative average of 65%, including:
 - three APPLS Core Courses
 - four Approved Language Courses (all in one language that is not the student’s first language, or two in each of two languages that are not the student’s first language)
 - three Approved Applied Language Studies Courses

Note: No more than two courses may be double counted between Applied Language Studies and any other academic plans or subplans.

Applied Language Studies Diploma

This Diploma is designed for non- or post-degree students who wish to explore issues of second or foreign language teaching and acquisition. Requirements are the same as for the Option.

APPLIED LANGUAGE STUDIES CORE COURSES

APPLS 301 Language Didactics
APPLS 305R Second Language Acquisition
APPLS 306R Second Language Assessment and Testing

APPROVED LANGUAGE COURSES

CHINA 101R First-year Chinese 1
CHINA 102R First-year Chinese 2
CHINA 120R Advanced First-year Chinese
CHINA 201R Second-Year Chinese 1
CHINA 202R Second-Year Chinese 2
CHINA 310R Chinese for Business Settings
CHINA 320R Chinese in Mass Media
CROAT 101 Elementary Croatian I
CROAT 102 Elementary Croatian II
CROAT 201 Intermediate Croatian I
CROAT 202 Intermediate Croatian II
DUTCH 101 First-Year Dutch
DUTCH 102 First-Year Dutch
DUTCH 201 Intermediate Dutch
DUTCH 202 Intermediate Dutch
ESL 101R Fundamentals of Spoken English
ESL 102R Introduction to Error Correction in Writing
ENGL 129R Introduction to Written English
FR 151 Basic French 1
FR 152 Basic French 2
FR 192A French Language 1: Module 1
FR 192B French Language 1: Module 2
FR 203 Introduction to Phonetics of French
FR 250A Intermediate Spoken French 2
FR 251 French Language 2: Module 1
FR 252 French Language 2: Module 2
FR 300A Advanced Spoken French 3
FR 351 French Language 3: Module 1
FR 352 French Language 3: Module 2
FR 400 French Language 4A
FR 400A Advanced Spoken French 4
FR 452 French Language 4B
GER 101 Elementary German I
GER 102 Elementary German II
GER 201 Intermediate German I
GER 202 Intermediate German II
GER 203 Written Communication
GER 204 Integrative Language Seminar
GER 303 German Through Media
GER 304 Reading and Translating
GRK 100A Introductory Ancient Greek 1
GRK 100B Introductory Ancient Greek 2
GRK 201 Intermediate Greek
GRK 202 Selections from Greek Authors
GRK 205/RS 305B Hellenistic Greek
GRK 351 Advanced Composition, Grammar and Reading

GRK 451 Advanced Greek Composition and Reading
ITAL 101 Introduction to Italian Language 1
ITAL 102 Introduction to Italian Language 2
ITAL 201 Intermediate Italian 1
ITAL 202 Intermediate Italian 2
ITAL 251 Issues in Contemporary Italian Society
JAPAN 101R First-Year Japanese 1
JAPAN 102R First-Year Japanese 2
JAPAN 201R Second-Year Japanese 1
JAPAN 202R Second-Year Japanese 2
JAPAN 301R Third-Year Japanese 1
JS/RS 105A Introductory Biblical Hebrew 1
JS/RS 105B Introductory Biblical Hebrew 2
JS/RS 306A Intermediate Biblical Hebrew
KOREA 101R First-Year Korean 1
KOREA 102R First-Year Korean 2
KOREA 201R Second-Year Korean 1
KOREA 202R Second-Year Korean 2
LAT 100A Introductory Latin 1
LAT 100B Introductory Latin 2
LAT 203 Intermediate Latin
LAT 204 Selections from Latin Authors
LAT 351 Latin Composition and Reading
LAT 391 Advanced Latin Reading
LAT 451 Advanced Latin Composition and Reading
POLSH 101 Elementary Polish I
POLSH 102 Elementary Polish II
POLSH 201 Intermediate Polish I
POLSH 202 Intermediate Polish II
PORT 101 Introduction to Portuguese 1
PORT 102 Introduction to Portuguese 2
RS/JS 105A Introductory Biblical Hebrew 1
RS/JS 105B Introductory Biblical Hebrew 2
RS 106A New Testament Greek
RS 106B New Testament Greek
RS 305A Intermediate New Testament Greek
RS 305B/GRK 205 Hellenistic Greek
RS/JS 306A Intermediate Biblical Hebrew
RUSS 101 Elementary Russian I
RUSS 102 Elementary Russian II
RUSS 201 Intermediate Russian I
RUSS 202 Intermediate Russian II
RUSS 301 Advanced Russian I
RUSS 302 Advanced Russian II
SPAN 101 Introduction to Spanish 1
SPAN 102 Introduction to Spanish 2
SPAN 111 Conversational Spanish
SPAN 201A Intermediate Spanish 1
SPAN 201B Intermediate Spanish 2
SPAN 251A Translation and Composition 1
SPAN 251B Translation and Composition 2
SPAN 351A Advanced Composition and Conversation 1
SPAN 351B Advanced Composition and Conversation 2
SPAN 390 Introduction to Spanish Business Translation

**APPROVED APPLIED LANGUAGE
STUDIES COURSES**

APPLS 304R Theoretical Foundations for
English Language Teaching
ARTS 303 Designing Learning Activities with
Interactive Multimedia
CLAS 230 Classical Roots of English
Vocabulary
DRAMA/GER 250 Performance German I
ENGL 103A The Nature and Structure of the
English Language
ENGL 103B Varieties of English
ENGL 219 Contemporary Usage
ENGL 306A Introduction to Linguistics
ENGL 306F Introduction to Semiotics
ENGL 376R Applied English Grammar 1
ENGL 377R Applied English Grammar 2
FR 303 Introduction to Linguistics

GER/DRAMA 250 Performance German I
GER 331 Studies in Genre (Linguistic Analysis)
GER 350 Performance German II
GER 420 Topics in Language Pedagogy
INTST 101 Introduction to International Studies
PSYCH 212 Educational Psychology
PSYCH 222R Cross-Cultural Psychology
PSYCH 320 Language Development
SOCWK/SWREN 301R Understanding Diversity in Canada
SOC 207 Sociology of Education
SPAN 445 History of the Spanish Language
SPAN 450 Theory of Translation
SPAN 490 Advanced Translation
SPCOM 223 Public Speaking
SPCOM 324 Small Group Communication
SWREN/SOCWK 301R Understanding Diversity in Canada

Rationale: With UW's emphasis on internationalization, especially in its sixth decade planning, Renison's English Language Institute, in cooperation with departments from across the Arts Faculty, proposes these plans which would offer students who specialize in language studies a package of courses that has not previously been offered by the University. This Option/Diploma will facilitate course selection and open the door to international language teaching options. Students who successfully complete the Option/Diploma would be attractive candidates to teachers' colleges and English Second Language Certificate (CTESL) programs in many countries.

ACADEMIC PLAN CHANGES

***Faculty of Environmental Studies
Geomatics Option***

Motion: To approve the change to the plan as noted below: (~~striketrough~~ = delete; **bold** = new)

The Geomatics Option is available for students in the ~~Department of Environment and Resource Studies, Department of Geography, and the School of Planning, in the Faculty of Environmental Studies~~ **and the Science and Aviation Plans in the Faculty of Science.**

The requirements for the Option are ~~eight~~ **seven** courses (four core and ~~four~~ **three** elective) with a minimum overall cumulative average of 65%.

Required Courses

Four courses: GEOG ~~271 276, 304,~~ **310, 371 376,** 471 (1.0 unit)

Elective Courses

At least three of the following courses: GEOG 255/PLAN 255, **GEOG 276,** GEOG 355/PLAN 355, GEOG 455/PLAN 455, GEOG 457/PLAN 457, GEOG 555/PLAN 555

Rationale: This Option is a suitable sub plan for students in Environmental Studies and Faculty of Science students in Aviation Plans. The changes correct an editorial error and reflect recent course changes in the Geography Department. The proposed changes also strengthen the Geomatics Option with new specialized courses.

Faculty of Science
Earth Sciences
Honours Major Academic Plans

Motion: To approve the change to the Arts Core Course requirement for these plans as noted below: (~~strikethrough~~ = delete; **bold** = new)

Arts Core: The following courses may be taken as the required Arts Core for all Earth Sciences Sub Plans: SPCOM 223; ENGL 109, 129R, 140R, 209, 210C, 210E, 210F, 210G; PHIL 145, 206, 215, 224; ECON 101, 102, 355; ENVS 201; MTHEL 100. Other courses must be approved by an Undergraduate Academic Advisor.

The Canadian Council of Professional Geoscientists (CCPG) recommends that acceptable professional practice requires technical writing ability, oral communication effectiveness and awareness of regulatory and legal issues of practice for interprovincial mobility. Currently, the Association of Professional Geoscientists of Ontario (APGO) only requires a one-term course (0.5 units) to address this recommendation. Although many courses are suitable to fulfill this requirement, the following address the oral and written communication area: SPCOM 223; ENGL 109, 129R, 140R, 209, 210E, 210F; PHIL 145.

Rationale: The description of the Arts Core course requirement has been changed to recommend, rather than require, a selection from a specific set of courses. Some guidance for selection based on professional licensing requirements is also added.

UNDERGRADUATE ADMISSION REQUIREMENTS

Faculty of Environmental Studies
Admission Requirements for Caribbean System Applicants to Environmental Studies Programs

Motion: To approve the Faculty’s requirements as below: (~~strikethrough~~ = delete; **bold** = new)

Program	Requirements
Environment and Business, Co-op only	Unit 1- or Unit 2-level English with minimum grade of 3 2 . Final overall average of 2.
Environment and Resource Studies, Co-op and Regular	Unit 1- or Unit 2-level English with minimum grade of 3 2 . Final overall average of 2.
Honours Geography, Co-op and Regular	Unit 1- or Unit 2-level English with minimum grade of 3. Final overall average of 2.5.
Geography and Aviation, Regular	Unit 1- or Unit 2-level Mathematics and English with a minimum final grade of 3 2 in each. One other Unit 1- or Unit 2-level course in either Physical Geography, Earth Science, Geology or Environmental Science with a minimum final grade of 3. Final overall average of 2.5. Applicants are required to complete a screening process by the Waterloo-Wellington Flight Centre that includes an interview and a Transport Canada Category 1 Aviation Medical Certificate.
Geomatics, Co-op and Regular	Unit 1- or Unit 2-level English and Mathematics with a minimum final grade of 3 2 in each. Final overall average of 2.5.
Planning, Regular	Unit 1- or Unit 2-level English with minimum grade of 2. Final overall average of 2.
Planning, Co-op	Unit 1- or Unit 2-level English with minimum grade of 2. Final overall average of 2.

Rationale: Caribbean Advanced Proficiency Examination (CAPE) credits are taken at either the Unit 1- or Unit 2-level, which are equivalent to AS- and A-level credits, respectively, in the British system. These are comparable to Grade 12 and 13 in the Canadian system. The requirement of Unit 2-level is

restrictive and this change both broadens the requirements and brings them in line with other UW programs. Similarly, to remain in line with other programs at UW, and to maintain equivalence with the published British system requirements, Environmental Studies programs (excepting Geography) propose increasing their English grade requirements from 3 to 2.

CHANGES TO REGULATIONS

Faculty of Arts Minimum Grade

Motion: That the current grading policy for the Faculty of Arts be modified to read as follows:
(~~strikethrough~~ = delete; **bold** = new)

Range of failing grades: ~~In Arts Faculty courses grades may run from a high of 49% to a low of 32%. Arts students must be aware that failing grades in courses taken in other faculties may go as low as 0%.~~ **Failing grades in the Faculty of Arts may range from 0-49%. In order to preserve consistency and continuity with historical grading practices in the courses of the Faculty of Arts, grades from 0-32% will be calculated at 32% for the purpose of determining a student's average(s).**

Rationale: The proposed change brings the Faculty's failing grade practice in line with some of the other Faculties.

Faculty of Mathematics Degree Requirements

Motion: To change the text for the Honours Fallback Provision on page 10:7 of the 2007/08 Calendar to the following: (~~strikethrough~~ = delete; **bold** = new)

Students who satisfy all the conditions below, but do not satisfy the cumulative major average requirement and/or the excluded-units requirement for an Honours degree, will be eligible for a three-year BMath General degree:

1. all course requirements for a specific BMath Honours, ~~or~~ BCS, **or BCFM** plan; ...

Rationale: This change will allow BCFM students who fail to meet certain 'quality' requirements to graduate with a BMath Three-year General degree on the same basis as Honours students in the Math Faculty. This change is being made only in Mathematics for Mathematics BCFM students.

FOR INFORMATION

Curricular Modifications

On behalf of Senate, Council approved several changes to academic plans, new courses, course changes and course inactivations for the Faculties of: Arts (Accountancy; Cognitive Science; Dean of Arts; History; Philosophy; Psychology; Religious Studies; Renison College – Applied Language Studies, Arts, East Asian; Sociology); Engineering (Chemical Engineering; Mechanical Engineering; Option in Water Resources); Environmental Studies (Environment & Resource Studies; Planning); Mathematics (Applied Mathematics; Computer Science) and Science (Biochemistry; Chemistry; Honours Computational Science – revised structure in all plans [Co-operative and Regular]; Earth Sciences, and revised structure in Honours Earth Sciences [Atmospheric Specialization and Environmental Specialization] plans; General Science and Honours Science; Physics & Astronomy).

/kjj
April 22, 2007

Gail Cuthbert Brandt
Chair