

Senate
Senate Chamber
Room E3-262 Engineering Building
WEDNESDAY, April 5, 2006
1:30 p.m.
Regrets call 474-6892

AGENDA

I MATTERS TO BE CONSIDERED IN CLOSED SESSION

II MATTERS RECOMMENDED FOR CONCURRENCE WITHOUT DEBATE

1. **Proposal for a Post Baccalaureate Certificate in Manufacturing Engineering.** Page 17

2. **Report of the Senate Committee on Medical Qualifications
Re: Dr. Elizabeth Cowden** Page 38

Note: A copy of Dr. Cowden's full *curriculum vitae* is available for inspection by member of Senate in the Office of the University Secretary, Room 312 Administration Building.

3. **Report of the Faculty of Graduate Studies on course proposals/modifications/deletions** Page 39

III MATTERS FORWARDED FOR INFORMATION

1. **Election of Faculty Members to Senate**

Deans and Directors are reminded that where elections of faculty members are required, the results must be reported in writing to the Office of the University Secretary (312 Administration) by April 15th.

2. **Report of the Senate Committee on Awards** Page 47

2. **In Memoriam Professor Murray Samuel Donnelly** Page 53

3. **In Memoriam Professor John Laurence Hamerton** Page 54

4. **In Memoriam Professor Cecile Clayton-Gouthro** Page 55

5. **Statement of Intent – Master of Fine Arts** Page 56

6. **Correspondence from the Vice-President (Academic) & Provost**

- a) **re: Master of Public Health** Page 63

- b) **re: Ph. D. in Design and Planning** Page 64

IV REPORT OF THE PRESIDENT **Page 65**

V QUESTION PERIOD

Senators are reminded that questions shall normally be submitted in writing to the University Secretary no later than 10:00 a.m. of the day preceding the meeting.

**VI CONSIDERATION OF THE MINUTES
OF THE MEETING OF MARCH 1, 2006**

VII BUSINESS ARISING FROM THE MINUTES

**VIII REPORTS OF THE SENATE EXECUTIVE COMMITTEE
AND THE SENATE PLANNING AND PRIORITIES COMMITTEE**

1. Report of the Senate Executive Committee **Page 85**

**2. Report of the Senate
Planning and Priorities Committee**

The Chair will make an oral report on the Committee's activities.

**IX REPORTS OF OTHER COMMITTEES OF SENATE,
FACULTY AND SCHOOL COUNCILS**

1. Report of the Senate Committee on Rules and Procedures

a) re: Faculty of Nursing **Page 86**

b) re: Faculty of Pharmacy **Page 93**

2. Report of the Senate Committee on Admissions

**a) re: Proposal from the Faculty of Pharmacy to
modify its admission requirement concerning
residency in Manitoba** **Page 99**

**b) re: proposal from the Faculty of Law to modify
its admission requirements concerning LSAT
scores and transfer applications** **Page 101**

**c) re: Proposal from the Faculty of Engineering to modify
its admission requirements for applicants applying
after completing first year outside the Faculty** **Page 103**

3. Report of the Senate Committee on Appeals

The Chair will make an oral report on the Committee's activities.

4. **Report of the Guidelines and Policy Committee
of the Faculty of Graduate Studies**

Page 108

X **ADDITIONAL BUSINESS**

XI **ADJOURNMENT**

Please Call Regrets to 474-6892.

/nis

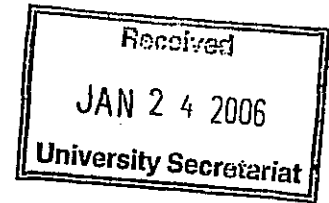


UNIVERSITY
OF MANITOBA

Extended Education

Winnipeg, Manitoba
Canada R3T 2N2
Telephone (204) 474-9921
Toll Free in Canada
1-888-216-7011
Fax (204) 474-7660

Memorandum



To: Mr. Jeff LeClerc, University Secretary
From: Anne Percival, Dean, Extended Education
Date: January 23, 2006
Re: Proposal for a Post Baccalaureate Certificate in Manufacturing Engineering

At the Extended Education Council meeting of January 18, 2006, the following motion was approved:

"That Extended Education Council approve, and forward to Senate for its concurrence, the Proposal for a Post Baccalaureate Certificate in Manufacturing Engineering."

Program Review Committee/CARRIED

The proposal is attached along with a letter of support from the Libraries. We have not included the complete set of appendices; however, if you think these would be useful for Senate Executive or Senate, please advise.

Comments of the Senate Executive Committee:
The Senate Executive Committee endorses
the report to Senate.

PRC Checklist: Non-Degree Program Proposals

Section A – Completed by Program Developer

** The checklist should be completed in conjunction with the Non-Degree Program Taxonomy*

Title Proposed program - POST BACCALAUREATE CERTIFICATE IN MANUFACTURING ENGINEERING

Name Program Developer - DR. ATLANTA SLOANE-SEALE

Area in CED - CONTINUING EDUCATION (formerly Management Professional and Community Programs)

Date (submitted) - December 15, 2005

Definition: Does the program conform to the definition of the proposed credential?

- ☒ Appropriate credential for the proposed program
- ☒ Number of contact hours fit the proposed credential requirement
- ☒ Requirement (preponderance) for degree/non-degree credit courses

Comments

Entrance Requirements: Do the entrance requirements conform to the proposed credential?

- ☒ Entrance requirements clearly specified
- ☒ Admission process clearly articulated
- ☒ Admission process efficient and reasonable to complete

Comments

Student Performance Requirements: Do the student performance requirements conform to the proposed credential?

- ☒ Performance requirements clearly specified
- ☒ Student assessment/evaluation process clearly articulated
- ☒ Basis of student performance specified, i.e. letter grade or pass/fail basis
- ☐ Maximum time limit for completion of the program specified

Comments

Residence Requirements: Do residence requirements conform to the proposed credential?

- n/a ☐ Residence requirements clearly specified?

Comments

Transfer of Credit: Have consultations taken place with sponsoring units?

- ☒ Relevant faculties/schools identified
- ☒ Transfer of credit outcomes clearly articulated
- n/a ☐ Supporting documentations for transfer of credit arrangements/outcomes included
- n/a ☐ Process for additional transfer of credit clearly articulated (post approval)

Comments

Approval Process: Does approval process conform to proposed credential?

- ☒ All stages in the approval process completed satisfactorily
- ☒ Consultations taken place with the library
- ☒ Consultation with appropriate units with respect to technology and space needs
- ☒ Supporting documents from library and other units included

Comments

Quality Assurance: Does Quality Assurance (program content) conform to the proposed credential?

- ☒ Provision/process for assuring the ongoing quality of the program content (formative and summative evaluation)
- ☒ Process for gathering and analyzing feedback from participants clearly articulated
- ☒ Timelines for the review process clearly specified

Comments

Student Status/Student Records: Does unit have capability to service the proposed credential?

- ☒ Student status capabilities/limitations identified
- ☒ Student records maintenance capabilities/limitations identified

Comments

Transcript/Other Recognition: Does unit have capability to service the proposed credential?

- ☒ Transcript capabilities/limitations identified

Comments

Insignia and Signatures: Does the insignia conform to the proposed credential?

- ☒ Sample of the insignia (parchment) included

Comments

Recommendation from Sponsoring Area: Does the proposal have the support of the Area and sponsoring units and appropriate external organizations?

- ☒ Recommendation, including observations/commentary from Area included
- ☒ Sponsoring units and organizations identified
- ☒ Support of the sponsoring units and external organizations documented/included

Comments

CED Strategic Priorities: Does the proposed program fit one or more of CED's strategic priorities?

- ☒ Fit clearly articulated

Comments

Section B – Completed by PRC

Overall Quality of Proposal: Is the program planning process complete, i.e. needs assessment, instruction design and delivery methods, resource allocation, financial and marketing plans?

- ☒ Well written and presented
- ☒ Clarity of proposal
- ☒ Completeness of proposal
- ☒ Persuasiveness of proposal

Comments

Overall Observations:

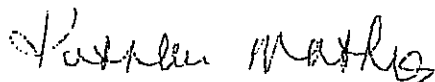
1. The Proposal is strongly supported as it meets the strategic directions outlined by Extended Education
2. The Program identifies an essential need within the professional community
3. The Proposal reflects collaboration between the Faculty of Engineering and Extended Education

Recommendation (Motion for approval):

That Council approve the Post Baccalaureate Certificate in Manufacturing Engineering and that the Proposal be sent to Senate for approval.

Date: January 19, 2006

Signature, Chair, PRC:



UNIVERSITY OF MANITOBA LIBRARIES MEMORANDUM

Date: June 9, 2005

To: Dr. Atlanta Sloan-Seale

Cc: Jan Horner, Coordinator of Libraries Collections; Norma Godavari, Librarian, Donald W. Craik Engineering Library

From: Lyle Ford, Off-Campus Librarian, Elizabeth Dafoe Library 

RE: Post-baccalaureate Certificate in Manufacturing Engineering

The proposed Post-baccalaureate Certificate in Manufacturing Engineering will be a new certificate in the Continuing Education Division. The University of Manitoba Libraries (UML) can provide support for this certificate.

The University of Manitoba (UM) and Red River College will cooperate to offer this certificate, with courses being offered by both institutions. At the U of M, courses will be delivered by the Faculty of Engineering and by the Continuing Education Division. As we have discussed, all of the U of M courses are already in existence. No new courses are proposed for this certificate.

Given that the UML is already supporting the existing Engineering and Continuing Education courses, there are no significant resource implications presented by this proposed certificate. I am confident that the UML's collection of print and electronic sources will provide students with sufficient resources for their coursework.



UNIVERSITY
OF MANITOBA

Continuing Education Division

hereby certifies that on this day, the 20th of January 2006

STUDENT'S NAME

has successfully completed the certificate program in

**POST BACCALAUREATE
MANUFACTURING ENGINEERING**

Dean, Extended Education

Dean, Faculty of Engineering



Formal Proposal

Post Baccalaureate Certificate in Manufacturing Engineering

Dr. Atlanta Sloane-Seale
Associate Professor & Program Director
The University of Manitoba
Extended Education,
Continuing Education

December 15, 2005

Table of Contents

| | |
|---|-----------|
| FORMAL PROPOSAL..... | 1 |
| Appendix I: Letters of Support..... | 17 |
| Appendix II: Advisory Committee members | 25 |
| Appendix III: Terms of Reference of Advisory Committee | 28 |
| Appendix IV: Report: Findings and Recommendations | 32 |
| Appendix V: Collaborative Formative Review | 45 |
| Appendix VI: Survey Results | 52 |
| Appendix VII: Letter of Support from the University Library Services | 69 |
| Appendix VIII: Financial Plan | 71 |
| Appendix IX: Marketing Plan | 74 |
| Appendix X: Course Descriptions | 79 |

Post Baccalaureate Certificate in Manufacturing Engineering

1. Introduction

1.1. Title of the proposed program.

Post Baccalaureate Certificate in Manufacturing Engineering (PBCME).

1.2. Name of Program Developer and Area that will manage the program.

Dr. Atlanta Sloane-Seale, Associate Professor & Program Director, University of Manitoba (UM), Extended Education (EE), Continuing Education (CE).

1.3. Credential type.

A Post Baccalaureate Certificate Program is being proposed. This program meets this credential type because it consists of non-degree courses that will be taken from CE and non-degree courses to be taken from Red River College. In addition, all the Faculty of Engineering courses will be sectioned as non-degree courses and some of the course titles, format, content, learning objectives, evaluation methods, and scheduling will be different from the degree courses. For example, 25.353 Computer-Aided Design (78 hrs) will be 25.353 Computer-Aided Manufacturing Design (78 hrs); 25.357 Manufacturing Automation (78 hrs) will be broken into two-39 hour courses called 25.357 (A) Actuator and Sensor Technology for Automation (39 hrs), and 25.357 (B) Programmable Logic Controllers (39 hrs); and 25.355 Computer Numerical Control and Robotics (78 hrs) will be broken into two-39 hour courses called 25.355 (A) Industrial Robots (39 hrs), and 25.355 (B) Computer Numerical Control (39 hrs). As well, these courses will have greater depth which will be demonstrated through assignments and project-based work. The program meets the credential type.

1.4. Is this a new program or major revision to an existing program?

This is a new program.

1.5. A description of the program as it will appear in the calendar or calendar equivalent.

The program is offered in partnership with the Faculty of Engineering (FE), Extended Education (EE), and Red River College (RRC). It provides theoretical, technical, hands-on engineering, and management development knowledge to graduate engineers (i.e., Engineers in Training—EIT) working in the field of manufacturing. It is designed for people who are involved in a variety of manufacturing and processing industries, including transportation, agriculture, bioengineering, biotechnology, and pharmaceutical industries (petro/chemical sector), aviation, aerospace, original equipment manufacturers, prosthetics, and consulting engineers. In addition to graduate engineers (EIT), technologists will also benefit from the program because it focuses on the development, enhancement, and application of specific theoretical and technical engineering and management knowledge and skills not acquired in engineering and technical programs. The PBCME program provides the opportunity for study in two areas, Management and Engineering. It consists of 226 hours: one 8 hour required course that is normally taken first, plus a minimum of 60 hours of elective from CE UM management courses, and a minimum of 158 hours from the engineering courses (of which a minimum of 78 hours must be taken from the Faculty of Engineering courses).

1.6. Other academic units within the University or external agencies that are partners to this proposal.

The PBCME program is developed in partnership with the University of Manitoba's Faculty of Engineering (FE), Extended Education (EE), and Red River College (RRC). Dr. Doug Ruth, Dean, Faculty of Engineering initiated the development by retaining Mr. Jonas Sammons to conduct a feasibility study for the implementation of the program. Dr. Sandra Ingram, Assistant Professor (Faculty of Engineering), was initially assigned to work on this undertaking with CE. Ms. Carolyn Geddert, Engineer in Residence, Faculty of Engineering has been assigned to replace Dr. Ingram. The CE was approached for guidance and support in the process, and to offer the management courses. RRC was approached because they offer the technical, hands-on courses.

1.6.1. The roles, responsibilities, and expectations of these partners in the development and delivery of the proposed program.

The Program Director, in consultation with the Advisory Committee, is responsible for all academic and administrative decisions related to the program. Members of the Advisory Committee, including representatives from CE, FE, RRC, and local industry experts involved in the manufacturing and processing sectors will provide input and advice on developing and delivery of the program. Advisory Committee members will identify instructors from academic staff and recognized industry experts, identify the potential participants, review program content to ensure the program remains current and relevant, and recommend program evaluation, needs assessment, and marketing the program. It is expected that the FE and RRC will ensure that the engineering courses are offered in a format that meets learners' needs, and that the appropriate human and non-human resources are available to deliver the courses. It is expected that industry representatives will act as ambassadors for the program and provide appropriate supports, including a supportive work environment to students taking the program. Industry representation on the Advisory Committee includes Canadian Manufacturers and Exporters (CME); Palliser Furniture Ltd.; Vansco Electronics Ltd.; Monarch Industries; Westeel; Motor Coach Industries; Melet Plastics; Triple E; and the Association of Professional Engineers of the Province of Manitoba (APEGM).

(See Appendix I: Letters of Support, Appendix II: Advisory Committee members, and Appendix III: Terms of Reference).

1.6.2. The roles and responsibilities of the Division.

The Program Director is responsible for all aspects of program quality, including the program's design, development, delivery, evaluation, budget, and marketing related to program requirements and instructional quality. These roles may include:

- Working with content specialists to develop course outlines;
- Working with content specialists to develop students' assessments, assignments, and course evaluations;
- Establishing administrative procedures for registration and administration of the program;
- Conducting any required market research;
- Chairing and/or co-chairing committee meetings; and

- Liaising with partners.

CE, in partnership with the Advisory Committee, will make decisions with respect to scheduling of courses, cancellation of courses, students' progression in the program, instructors' stipends, and class size.

- 1.7. Is the program intended to be ongoing or one that will be offered for a limited period of time? Explain.

The program is intended to be ongoing based on market demand.

2. Needs Assessment

- 2.1 From the CFR report, **summarize** the results of the needs assessment for the following:

- 2.1.1 Target audience.

The program is designed for graduate engineers (i.e., Engineers in Training) working in manufacturing and processing industries, including transportation, agriculture, bioengineering, biotechnology, and pharmaceutical industries (petro/chemical sector), aviation, aerospace, original equipment manufacturers, prosthetics, and consulting engineers. There are approximately 3,623 professional engineers in the Province of whom approximately 656 are graduate engineers (Engineers in Training) who would be eligible to attend the program. However, the number of graduate engineers is variable because each year approximately 150 receive their Professional designation while another 100 graduate engineers are added to the roster. Although only graduate engineers will be eligible to receive the Certificate, technologists and other technical personnel in the manufacturing industry will also benefit from individual courses in the program because the program focuses on the development, enhancement, and application of specific theoretical and technical engineering and management knowledge and skills not acquired in engineering and technical programs.

- 2.1.2 The audiences' educational needs.

The Faculty of Engineering assigned a staff member (Dr. Sandra Ingram) to explore the need for a program for graduate engineers. CE was approached for guidance in this process. On September 27, 2001 a meeting, with 36 industry representatives, was held to discuss the concept, obtain industry feedback, and identify sectoral groups to facilitate further program development. Five sectoral groups were identified (aerospace, manufacturing, transportation, utilities, and buildings) and met subsequently to identify the educational needs for the program. The processing sector was later invited to participate and joined with the manufacturing and aerospace sectors. Because of the numbers and interest of these sectors, the decision was made to proceed with the development. The formation of this group was the first step in determining the educational needs for the program. This group met initially to confirm that there was a need for such a program. Following this, the Faculty of Engineering retained Mr. Jonas Sammons to conduct a feasibility study for the implementation of the program. Mr. Sammons conducted two focus groups both of which were attended by Dr. Doug Ruth, Dean, and Dr. Sandra Ingram, Faculty of Engineering. The responses to the focus groups are contained in Mr. Sammons' report dated July 4, 2002 (*See Appendix IV: Report: Findings and Recommendations*).

The report concluded that there is an educational need for theoretical, technical, hands-on engineering and management knowledge and skill to enhance existing post-secondary programs but the program should be industry driven, structured to accommodate busy work schedules of participants, and incorporate programming already in existence. An additional outcome of Mr. Sammons' report was the creation of an ad hoc Curriculum working group. This group, with input from RRC and Dr. Balakrishnan, Department Head, Mechanical and Manufacturing Engineering, UM, met several times to design the initial program presented in the CFR document (*See Appendix V: Collaborative Formative Review*).

Following the approval of the CFR in 2004, the Advisory Committee has met several times to consider course content for the program. After considerable debate and discussion, the Advisory Committee has now concluded that the program should be 2/3 engineering and 1/3 managerial courses (versus the original 1/3 engineering and 2/3 management split that was approved in the CFR in 2004). Given their formal training, graduate engineers need to continually upgrade and enhance their existing knowledge and skills in order to keep pace and abreast with the increased competition and demands of the workplace and the global economy. Further, manufacturing and managerial issues/problems often require specific training that is not included in a general Engineering degree program. The revised split will be more consistent with the focus and emphasis of the program as reflected in the title (i.e., Post-Baccalaureate Certificate in Manufacturing Engineering) therefore, the emphasis should be on acquiring the engineering/technical courses. The members agreed that there are many management programs and courses available for participants to access but they would not be able to access the manufacturing engineering courses. Finally, the members felt that the revised split would be consistent with the stated objectives of the program. It was agreed that the engineering/technical courses would be offered through the UM Faculty of Engineering and/or RRC, and the managerial courses would be offered through the CE.

2.1.3 Market demand.

In the new economy, companies are challenged by increased competition from around the globe. Engineers within these organizations are finding they need to continually upgrade their knowledge and skills in order to keep pace with these demands. Accordingly, the UM Faculty of Engineering and the CE have worked with industry representatives and RRC to determine the market need and demand for a post-baccalaureate certificate designed to address the ongoing professional development needs of graduate engineers working in the manufacturing sector, including processing, and aerospace sectors. Industry representatives have played a driving role in working with CE and the Faculty of Engineering and their continued input is key to determining the ongoing needs and demand of the program. They have been instrumental in determining the focus and emphasis of the program, the format, and the delivery of the program. They are involved in all aspects of development and delivery, and are committed to ensuring the success of the program.

As an example of this commitment, the representative from CME was instrumental in administering an on-line pilot survey that the Advisory Committee developed and designed to further determine program interest and scheduling. The survey was e-

mailed to 108 CME's manufacturing contacts, and there was a 32% response rate. Eighty-five percent of the respondents indicated an interest in the pre-requisite course. The Management courses that were of most interest were: Leading Organizations, Individuals and Teams (100%); Project Management (81%); Supply Chain Management (65%); Essentials of Management (58%); and Supervisory Management 1 and Organizational Behavior (57%) respectively. The technical courses that were of most interest were: MECH 773 Enterprise Resource Planning (53%); 25.357 (A) Actuator and Sensor Technology for Automation and 25.357 (B) Programmable Logic Controllers (48%); MECH 221 Engineering Design 2 (47%); MECH 555 Computer Aided Design (42%); and MECH 772 Computer Aided Engineering (40%). These responses, from experienced professionals in the field, provide some direction for course selection and offering. With respect to scheduling, 47% of the respondents indicated a preference for evening formats; 74% of the respondents have at least an undergraduate degree; 90% have been employed for more than five years in the field; 64% are 41 years of age and older; and 59% are engineers. There was a high degree of interest in individual courses, and an indication that others in their organization would benefit from taking the courses. The results of this data collection indicate interest for specific management and technical courses in the program and for evening scheduling (*See Appendix VI: Survey Results*).

2.1.4 Potential supports for and barriers to participation.

Data from the industry focus group report, the on-line survey, and discussions with Advisory Committee members indicate widespread interest and support for the program. FE and RRC are prepared to make the courses and human and non-human resources available to meet learners' needs. Thus, the program is structured to accommodate the busy work schedules of participants (e.g., a combination of different formats, including evening offerings) and will incorporate programming already in existence (e.g., courses at RRC, FE, and CE). These design elements will also ensure industry's continued support and commitment to the program. As well, Advisory Committee members confirmed that they are prepared to provide support (i.e., reimbursement, tuition, accommodation of schedules, and a supportive work environment) for participants to attend the program and to continue to promote and market the program with their organization and other organizations and associations. Potential barriers include a transfer credit fee for courses completed at RRC that students will be required to transfer into the program in order to receive the certificate. An additional barrier may be insufficient student enrolment to ensure all courses are offered on a regular schedule thus requiring students to wait for the course offerings in order to complete the certificate. We do not anticipate that this barrier will pertain to RRC because their courses are available to a larger student base and are offered on a regular schedule.

3. Design and Delivery

3.1 Provide detailed program objectives and student learning objectives.

Program Objectives

- a) To develop a structured set of courses to assist graduate engineers for jobs within the manufacturing sector.

- b) To respond to industry demands for specific curriculum content.
- c) To help industry become and remain more competitive in the market place.
- d) To design and deliver a program to accommodate flexible work and course schedules.
- e) To deliver an administratively efficient program through the joint efforts of the Faculty of Engineering, Red River College, and the CE.
- f) To generate a positive contribution for the Faculty of Engineering and the CE.

Student Learning Objectives

- a) Analyze, synthesize, and evaluate the key concepts, principles, and practices related to areas of industrial automation, design for manufacturing, and CAD/CAM training.
- b) Identify the theories, concepts, and principles of lean manufacturing.
- c) Acquire, demonstrate, and apply the theoretical knowledge and skills related to engineering design, robotics and computer numerical control, industrial process and control, manufacturing automation, fabrication methods, and tool design.
- d) Appraise, compare and contrast, criticize, and apply major concepts, principles, and practices related to general management, financial accounting, human resource development, and marketing.

3.2 Describe the program structure, including:

3.2.1 Course/module titles, contact hours, and pre-requisites.

The program consists of 2/3 engineering and 1/3 managerial courses with a pre-requisite/core course. It consists of 226 hours: one 8 hour required course that is normally taken first, plus a minimum of 60 hours of elective from CE UM management courses, and a minimum of 158 hours from the engineering courses (of which a minimum of 78 hours must be taken from the Faculty of Engineering courses). The other required pre-requisite is outlined within the specific course.

3.2.2 Required and elective courses/modules.

The required and elective courses are listed below. There are no special topics in this program.

Required course

World Class Performance and Measurement (8 hrs)

This course is a required course that is normally taken first. Key concepts, methods, and principles related to measurement methods, Just-In-Time, lean manufacturing methods, Toyota production system, total quality management, and Kaizen versus Innovation.

Management Electives (Select a minimum of 60 hours)

Accounting for the Non-Financial Manager (CE UM) (18 hours)

Key concepts in setting financial targets, assessing financial performance, and evaluating strategies.

Project Management (CE UM) (18 hours)

The tools, techniques, and software templates to support the orderly implementation of project management discipline.

Leading Organizations, Individuals and Teams (CE UM) (12 hours)

Concepts, models, and strategies related to leadership versus management, organizational and individual team development, leadership behavior patterns, and strategies for specific situations.

Essentials of Management (CE UM) (36 hours)*

Key principles of effective management, and practical application of management concepts and theory to learners' work environment.

Canadian Business: An Introduction (CE UM) (36 hours)

Management functions of planning, organizing, leading, controlling, marketing, operations, human resources, and the finance function of business.

Quality Assurance Planning (CE UM) (36 hours)*

Quality assurance procedures, and arrangement techniques, and programs.

Quality Control: Principles and Procedures (CE UM) (36 hours)*

Statistical quality control techniques, including how these techniques are used in manufacturing, and service industries.

Supervisory Management I (CE UM) (36 hours)

Key topics of role of supervisor, personality traits, communication, time management, organizational skills, workplace diversity, and delegation.

Organizational Behavior (CE UM) (36 hours)*

Key concepts, principles, and practices that explain individual processes, group and interpersonal processes, and organizational processes at the managerial position.

** Available by independent study*

Supply Chain Management (CE UM) (12 hours)

Integration of theories, strategies, and practices from manufacturing operations, purchasing, transportation, customer service, finance, and logistics.

Engineering Electives (Select a minimum of 158 hours from the engineering courses (of which a minimum of 78 hours must be taken from the Faculty of Engineering courses)).

CAD/CAM:

MECH 221 Engineering Design 2 (RRC) (40 hrs)

This course introduces students to the standard mechanical components that are commonly used in industry. It is intended to make students aware of standard catalogue components including how they are selected, local sources for them, and the application information available to them. After completing this course, students can produce formal 2-D drawings and 3-D models on a CAD system.

MECH 555 Computer Aided Design (RRC) (40 hrs)

This course extends the students' abilities in computer-aided mechanical design and will focus on design for manufacturing. Students will use one of the leading software to produce three-dimensional computer models (solids), assemblies, and engineering drawings. These models will then be modified for specific manufacturing processes such as casting, molding, and sheet metal fabrication.

MECH 772 Computer Aided Engineering (RRC) (40 hrs)

Students will be exposed to application software used in mechanical technology, the aim being to stimulate performance, optimize design, and speed production of mechanical systems. Students should have a sound knowledge of the subject matter relating to application software, for they will apply that knowledge to competently evaluate software and validate the result.

98634 Computer-Aided Manufacturing Design (ENG, UM) (78 hrs)

This course will allow participants to reach an advanced level of proficiency in CAD design packages. Participants will have the choice of selecting one or more of standard packages commonly used in industries.

Industrial Automation:

CNC-0114 Computer Numerical Control Theory (RRC) (40 hrs)

Students learn the theoretical programming concepts that are mandatory for operating CNC machines.

CNC-0115 Computer Numerical Control Practice (RRC) (40 hrs)

Students learn to operate industrial CNC machines such as mills and lathes.

MECH 781: Industrial Process Control (RRC) (40 hrs)

A continuation of Instrumentation & Control (MECH444), this course introduces systems used in industrial control processes, from advanced analog and digital concepts and linear control systems (their types, and applications) to pneumatic and electronic control systems. Advanced programmable logic controller concepts are developed. Pre-requisite: MECH 444.

98632 (A) Actuator and Sensor Technology for Automation (ENG, UM) (39 hrs)

The course will incorporate a combination of lectures and hands-on-laboratory modules to provide fundamental knowledge on various types of actuators and sensors and peripheral devices commonly used in automated processes. Laboratory sessions will allow students to get hands-on-experience on a variety of sensors.

98633 (B) Programmable Logic Controllers (ENG, UM) (39 hrs)

The course will incorporate a combination of lectures and hands-on-laboratory modules to provide the participants basic knowledge in the area of programmable logic controllers. Through several hands-on laboratory sessions, students will be able to gain valuable practical experience in the programming and design for process automation using logic controllers.

98630 (A) Industrial Robots (ENG, UM) (39 hrs)

The course will incorporate a combination of lectures and hands-on-laboratory modules to provide the participants basic knowledge in the area of programmable logic controllers. Through several hands-on laboratory sessions, students will be able to gain valuable practical experience in the programming and design for process automation using logic controllers.

98631 (B) Computer Numerical Control (ENG, UM) (39 hrs)

The course will incorporate a combination of lectures and hands-on-laboratory modules to provide the participants with knowledge in the area of manual and computer aided part programming for CNC machining. Through several hands-on laboratory sessions, both two-dimensional and three-dimensional machining will be demonstrated.

(All UM Faculty of Engineering courses are split between lectures and laboratory components):

Design for Manufacturing:

MECH 223 Quality Inspection (RRC) (40 hrs)

This course introduces the student to fundamental concepts of geometric dimensioning and tolerancing according to ASME Y14.5M-1994. Topics covered include proper application of GD&T principles to the design, manufacture, and inspection process, and the use of inspection tools and equipment (i.e. open set-up, cmm) according to ASME Y14.5M-1994 Standard.

MECH 225 Basics of Manufacturing (RRC) (40 hrs)

Divided into two modules, this course serves as a general introduction to manufacturing principles and methods. Students will learn the production processes and skills required to manufacture a product by building a stirling engine in a modern factory environment. This is a unique opportunity to not just talk about manufacturing concepts like JIT, lean, 5S SPC, and operation instructions but to use them in a factory setting.

MECH 445 Fabrication Methods (RRC) (40 hrs)

This course builds on the concepts presented in Basics of Manufacturing. Theory and practical skills in the fields of welding, composites, and sheet metal fabrication will be developed through applied projects using various fabrication techniques and equipment.

MECH 557 Tool Design (RRC) (40 hrs)

This course provides the fundamental concepts and basic skills necessary to understand and design a variety of basic to moderately complex jigs, fixtures, and dies. Students will apply these concepts through problem solving, design development, drawing construction, component specification and selection, and supervision or troubleshooting of the construction sequence.

MECH 773 Enterprise Resource Planning (RRC) (40 hrs)

This course presents students with the theory of manufacturing, planning, and control including Material Requirements Planning (MRP), MRPII, Enterprise Resource Planning (ERP), Manufacturing, Planning, & Control (MPC), Just-In-Time (JIT), and Lean systems.

3.2.3 Course progression.

The first course is a required course that is normally taken first. The other courses can be taken in any order as long as the pre-requisite outlined within the specific course has been taken.

3.2.4 Minimum and maximum times for completing the program.

The program will normally take three years to complete but must be completed within five years from initial application and registration into the program.

3.3 Provide a rationale for the program structure outlined above by explaining how, and to what extent, it addresses the needs of the intended audience, and challenges to participation.

Given their formal training, graduate engineers need to continually upgrade and enhance their existing knowledge and skills in order to keep pace and abreast with the increased competition and demands of the workplace and the global economy. Further, manufacturing and managerial issues/problems often require specific training that is not included in a general Engineering degree program. This split (2/3 engineering and 1/3 management) will be consistent with the focus and emphasis of the program as reflected in the title (i.e., Post-Baccalaureate Certificate in Manufacturing Engineering). While management programs and courses are easily accessible these courses are not. Finally, the split would be consistent with the stated objectives of the program. Because the program is industry driven, it will be offered in a format that meets the needs and demands of participants and industry.

3.4 Identify the teaching methods and delivery format.

3.4.1 Explain the methods used and why they have been selected.

The program consists of face-to-face delivery, including lectures, tutorials, and hands-on lab work offered in the evenings and/or weekends to address the educational needs of the participants. The engineering/technical courses will use face-to-face and applied methods because the content requires hands-on work in a laboratory setting using robotics, Program Logic Control (PLC), and project related work under the direction of the content experts.

3.4.2 Will flexible study be used in this design (*See Appendix VII*)? Explain.

Flexible study will be used in the management courses which are available in extended, compressed, and/or distance formats.

3.5 Describe admission requirements, including:

3.5.1 Selection criteria.

To be admitted to the program students must have an engineering degree. Technologists and other technical personnel in the manufacturing industry who have not met the admission requirements will be allowed to register in individual courses in the program but will not be eligible to receive the certificate.

3.5.2 Selection process.

Students must complete the Application to Enter a Certificate Program Form for admission to the program, and a Registration form to enter a course. Once students have met the admission requirement, their registration will be based on a first come first served basis.

3.5.3 Authority to approve admission decisions.

The Program Director, in consultation with the Advisory Committee, will have authority for admission decisions.

4 Transfer credit arrangements

4.1 Transfer credit arrangements within the University of Manitoba.

The members of the Advisory Committee agree that students need to enhance and broaden their technical theory, concepts, principles, and practices, therefore, transfer credit for previously completed engineering courses will not be allowed into the certificate program. In this regard, no

degree transfer credit agreements were negotiated with the Faculty of Engineering. Students who complete the FE courses, and subsequently are admitted to the FE, may apply to transfer those courses into the FE. With respect to the management courses, the Continuing Education transfer credit policy will apply.

- 4.1.1 Explain transfer credit arrangements negotiated during the development stage with faculties and schools at the University of Manitoba and CED. A letter from the office with authority to approve transfer credit must confirm these arrangements.

No transfer credit for technical courses (i.e., RRC and/or FE) that were completed prior to admission to the program will be allowed. Upon admission to the program, students who select and complete RRC courses will be required to transfer those courses into the program. Course exemptions and transfer credit for all other courses will be governed by the policies and procedures of the Extended Education/Continuing Education.

- 4.1.2 If transfer credit into the program varies from Division policy and procedures, explain the variance.

N/A

5 Resources

- 5.1 Describe the required qualifications of teaching personnel and their availability.

Instructors will be required to have a minimum of a Masters degree, and/or a professional designation in the field, including expertise in the content area, experience in teaching adults, and knowledge of adult learning principles. There are ample teaching resources available from both the academic and professional communities. For instance, teaching resources may be drawn from the Faculty of Engineering, RRC, and the professional communities such as Canadian Manufacturers and Exporters (CME), and the Association of Professional Engineers of the Province of Manitoba (APEGM).

- 5.2 Describe provisions for the orientation, training, and development of teaching personnel.

The program does not require special orientation, training, or professional development. All instructors will receive Continuing Education's *Instructor Handbook*. In consultation with the Program Director and the Advisory Committee members, consistent standards and guidelines for curriculum development will be developed. All Continuing Education instructors may participate, at no charge, in workshops, seminars, and courses offered through the University Teaching Services (UTS) and the Certificate in Adult and Continuing Education (CACE).

- 5.3 Do adequate library resources exist to support the program? (Note: Letter(s) of support from the libraries is/are required.)

Library materials are available from a number of sources, including the Dafoe Library, the Faculties of Engineering, and Management Libraries, and other governmental organizations. (See *Appendix VII: Letter of Support from the University Library Services*).

- 5.4 What instructional media resources are required to support the program? (Note: Letter(s) of support when requested).

Communication Systems will provide, as necessary, any instructional media such as AV equipment as required for the program. No additional instructional resources are required.

5.5 What laboratory or field placement facilities are required to support the program? (Note: Letter(s) of support when requested).

Laboratory facilities will be required and are available through the Faculty of Engineering and RRC to support the program. All participants will be working in their respective organizations, and companies, and will have access to their work settings to conduct, as necessary, any projects.

5.6 Describe any unique University counseling and student advisory services, relevant to the program, that are not normally available within the University, CED, or the Area.

No additional advising services will be required.

5.7 Describe any additional resources required for program delivery.

No additional resources will be required.

5 Advisory/Program Committee

6.1 Describe the membership and representation.

Current members and representation on the Advisory Committee include EE, CE; FE; RRC; and the local manufacturing, and processing sectors, including Canadian Manufacturers and Exporters (CME); Vansco Electronic Ltd.; Palliser Furniture Ltd.; Monarch Industries; Westeel; Motor Coach Industries; Melet Plastics; Triple E; and the Association of Professional Engineers of the Province of Manitoba (APEGM).

(See Appendix II: Advisory Committee members).

.2 Identify the terms of reference.

The Program Director, in consultation with the Advisory Committee, is responsible for all academic and administrative decisions related to the program. Members of the Advisory Committee will provide input and advice on developing and delivery of the program. They will identify instructors from academic staff and recognized industry experts, identify the potential participants, review program content to ensure the program remains current and relevant, and recommend program evaluation, needs assessment, and marketing the program.

(See Appendix III: Terms of Reference).

7 Student Assessment

7.1 Describe the grading system (pass/fail, letter, numerical) to be used, and the requirements for successful completion of the program.

The University of Manitoba Letter Grade System, for C or higher, will be applied. A grade of D will not be considered a passing grade in this program. On the advice of the Advisory Committee members a minimum passing grade for each course will be C or higher. Therefore, students must complete each course in the program with a minimum passing grade of C or higher and achieve an overall GPA of C or higher in order to receive the Certificate.

3 Course and Program Evaluation

8.1 Describe the method (SEEQ or other) and frequency of course and instructor evaluations to be used.

The University of Manitoba standard course evaluation will be used after each course is offered as well as informal mid-point course evaluation will be recommended to each instructor in the program. Ongoing informal debriefing with instructors will also form part of the instructors' evaluation. Evaluation information will be shared with instructors.

8.2 Identify performance indicators the Area will use to evaluate the program.

This program supports the Division's goals and mission to advance lifelong learning professional goals, to collaborate, and to increase access to the educational resources of the university. The program will help the Division address several of its strategic priorities. Strategic Priority 2: it will reach out to new groups of learners and facilitate the needs of their profession; Strategic Priority 3: it partners with Engineering thus strengthening our relationship with a unit on campus. In addition, it links with RRC and industry to develop external partnerships. Finally, any programming that we ultimately develop will address the Division's priorities of program quality and organizational effectiveness (financial viability).

The performance indicators that will be used to evaluate the program during the first three years are:

- Stable increase in total number of program registrations
- Cost effectiveness and full annual cost recovery after the third year of offering of program
- Steady increase in number of new organizations represented by students
- Steady increase in number of external partners expressing satisfaction with program.

9 Financial Plan

9.1 Outline a three-year financial plan for the program, using the Financial Services template (*See Appendix VIII*) that includes projected revenue, registration, direct expenses, time allocations, Central Services allocations, and return on development costs. The plan must be supported by reference to information obtained in the needs assessment and market demand analysis.

See financial plan (*See Appendix VIII: Financial Plan*).

9.2 Describe any revenue/deficit sharing agreements that are proposed between the Division and partners to the program.

The revenue/deficit will be based on 50/50 split on net revenue of EE and FE courses after EE's program development cost.

10 Marketing

10.1 Outline a three-year marketing plan for promoting the program, using the template developed by the Marketing Area (*see Appendix IX*). The plan must outline how to reach the intended audience.

See Marketing plan (*See Appendix IX: Marketing Plan*).



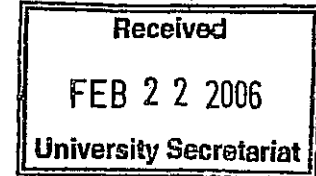
UNIVERSITY
OF MANITOBA

Faculty of Medicine

Office of the Dean
Room 260 Brodie
727 McDermot Avenue
Winnipeg, Manitoba
Canada R3E 3P5
Telephone (204) 789-3557
Fax (204) 789-3928

February 20, 2006

Mr. Jeff Leclerc
Acting Secretary
313 Admin Bldg.
Fort Garry Campus



Dear Mr. Leclerc:

Re: Senate Committee Approval for Registration
and Licensure of Dr. Elizabeth Cowden
Under Section 64 of the Medical Act

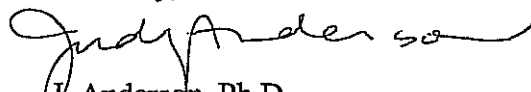
The Senate Committee on Medical Qualifications has considered the above individual for registration and licensure under Section 64 of the Medical Act. All members (Dr. J. Anderson, Chair, Dr. Karen Grant Dr. W. Pope, Dr. S. Barakat, Dr. Alecs Chochinov and Dr. B.W. Kirk) approved of the recommendation. Dr. Cowden is well known to the Department of Internal Medicine and to the University of Manitoba. She was formerly Head, Department of Internal Medicine at St. Boniface General Hospital and was employed by the University of Manitoba as a full-time academic physician from 1981 to 1996.

Dr. Cowden has excellent training and is an expert in the area of endocrinology. We have received enthusiastically positive letters of reference from senior academic physicians at Dalhousie University. Dr. Cowden has a very strong academic focus.

In view of the above, and a review of her C.V., letters of reference as well as the committee members' personal knowledge of Dr. Cowden, the committee unanimously approved Dr. Cowden's application for registration and licensure under Section 64 of the Medical Act in the area of Internal Medicine (Endocrinology).

Thank you for your consideration.

Sincerely,


J. Anderson, Ph.D.
Associate Dean (Academic)

Copy to: Dr. D. Roberts
Dr. W. Pope

Comments of the Senate Executive Committee:
The Senate Executive Committee endorses
the report to Senate.



UNIVERSITY
OF MANITOBA

FACULTY OF GRADUATE STUDIES

John (Jay) Doering, Ph.D.
Dean

500 University Centre
Winnipeg, Manitoba
CANADA, R3T 2N2
Ph: (204) 474-9887
Fax: (204) 474-7553
E-Mail: jay_doering@umanitoba.ca

Date: Feb. 27, 2006

MEMORANDUM

To: Mr. Jeff LeClerc, University Secretariat, Senate Office, 310 Admin. Bldg.
From: Dr. John (Jay) Doering, Dean, Faculty of Graduate Studies
Subject: MOTIONS FROM THE FACULTY COUNCIL COMMITTEE OF GRADUATE STUDIES

The following motion was passed at our Faculty Council meeting on February 27, 2006:

For Approval at Senate:

MOTION THAT the proposed course changes in German & Slavic, Plant Science, Animal Science, Botany, Computer Science, Electrical & Computer Science, Pathology, Chemistry and Anthropology be approved by Senate.

/jc

Atts.

Comments of the Senate Executive Committee:
The Senate Executive Committee endorses
the report to Senate.



Preamble

The Programs and Planning Committee (PPC) of the Faculty of Graduate Studies has the responsibility of reviewing graduate course deletions, modifications and introductions and makes recommendations to FGS Council. PPC met on October 24, 2005 and made the following recommendations regarding the deletions and introductions of courses in the Faculties of Arts, Agricultural and Food Sciences, Science, and Engineering.

Observations

1. Number of courses to be deleted in the Faculty of Arts: five (5) – German & Slavic Studies. Number of courses to be introduced: six (6) – German & Slavic Studies.
2. Number of courses to be deleted in the Faculty of Agricultural and Food Sciences: eleven (11) – Plant Science; two (2) – Animal Science. Number of courses to be introduced: two (2) – Plant Science.
3. Number of courses to be deleted in the Faculty of Science: ten (10) – Botany; six (6) – Computer Science. Number of courses to be introduced: one (1) – Botany.
4. Number of courses to be deleted in the Faculty of Engineering: one (1) – Electrical & Computer Engineering. Number of courses to be introduced: two (2) – Electrical & Computer Engineering.
5. All course deletions and introductions have been approved by the respective unit's Faculty Council.
6. The large number of course deletions in the Depts. of Plant Science, Botany, and Computer Science result from the Registrar's Office request for units to review their course listings and bring them up to date.
7. The large number of course additions in the Dept. of German & Slavic Studies is due to a restructuring of the unit's M.A. program. Both programs have developed a core curriculum (courses "Literary and Cultural Theory" and "Survey of Second Language Acquisition and Methods of Language Teaching") to assist in the development of knowledge that incoming graduate students in a foreign language require.
8. Nothing of significant importance was noted on the Statement of Libraries for the course introductions.
9. In regards to course addition "Biomedical Signal Processing", the statement from the Budget Dean in Engineering illustrates that ECE has hired an Assistant Professor on a three year contingent position. In addition, the Faculty of Engineering has identified that the next two hires will be in the area of Biomedical Engineering. The faculty stands a good chance of getting one or both positions in 2006 from the SIP.

Recommendation

The Programs and Planning Committee of the Faculty of Graduate Studies recommends that the Faculty Council of Graduate Studies endorse the course changes as indicated below to Senate for approval.

FACULTY OF ARTS

GERMAN & SLAVIC STUDIES

Courses to be deleted:

| | |
|--|-----|
| GRMN.7540 Eighteenth-Century Seminar | (6) |
| GRMN.7550 18 Cent Coll 1 | (3) |
| GRMN.7560 18 Cent Coll 2 | (3) |
| GRMN.7630 Seminar in German Literature | (6) |
| SLAV. 7370 Studies in Ukrainian Literary Criticism | (3) |

Courses to be introduced:

| | |
|--|------------|
| GRMN.7AAA Literary and Cultural Theory | (3) |
| A survey of the major theoretical approaches to German & Slavic literatures & cultures. Discusses the aesthetics of Enlightenment & Idealism, Nietzsche, Freud, Russian Formalism, Prague Structuralism, hermeneutics, semiotics, dialogism (Bakhtin), the Frankfurt School, collective memory, gender studies, post-colonialism, and multi-culturalism. | |

GRMN.7ABB Introduction to Second Language Acquisition and Methods of Language Teaching (3)
This course provides a general introduction to theories and approaches in second language acquisition (SLA) and methods of language teaching specifically designed for MA students of German and Slavic languages.

GRMN.7ADD Special Topics in German Literature and Culture 175-1945 1 (3)
Topics dealing with German literature and culture focusing on an author, a systematic topic or period between 1750 and 1945. Contents will vary from year to year depending on the needs of students and staff.

GRMN.7AEE Special Topics in German Literature and Culture 175-1945 2 (3)

Topics dealing with German literature and culture focusing on an author, a systematic topic or period between 1750 and 1945. Contents will vary from year to year depending on the needs of students and staff.

SLAV. 7AAA Literary and Cultural Theory (3)

A survey of the major theoretical approaches to German & Slavic literatures & cultures. Discusses the aesthetics of Enlightenment & Idealism, Nietzsche, Freud, Russian Formalism, Prague Structuralism, hermeneutics, semiotics, dialogism (Bakhtin), the Frankfurt School, collective memory, gender studies, post-colonialism, and multi-culturalism.

SLAV. 7ABB Introduction to Second Language Acquisition and Methods of Language Teaching (3)

This course provides a general introduction to theories and approaches in second language acquisition (SLA) and methods of language teaching specifically designed for MA students of German and Slavic languages.

Net Change in Credit Hours: - 3

FACULTY OF AGRICULTURE AND FOOD SCIENCES

PLANT SCIENCE

| | | |
|--------------------------------------|---|-----|
| <u>Courses to be deleted:</u> | PLNT.7640 Physiology of Crop Plants | (3) |
| | PLNT.7380 Research Methodology | (3) |
| | PLNT.7520 Plant Growth Regulation | (3) |
| | PLNT.7540 Breeding for Plant Disease Resistance | (3) |
| | PLNT.7550 Physiological and Molecular Plant Pathology | (3) |
| | PLNT.7060 Cytogenetics | (3) |
| | PLNT.7260 Tracer Methodology | (3) |
| | PLNT.7410 Biochem Plant Dev | (3) |
| | PLNT.7440 Adv Crop Physio | (3) |
| | PLNT.7450 Cytogenetics 1 | (3) |
| | PLNT.7460 Cytogenetics 2 | (3) |

| | | |
|---|--|-----|
| <u>Courses to be introduced:</u> | PLNT.7XXX Advanced Plant Physiology | (3) |
| | Examination of current concepts of regulation and limitations of photosynthesis, nitrogen metabolism, and assimilate | |

partitioning in field and horticultural crops. Content will include the mode of action of plant growth regulators and herbicides in these processes.

PLNT.7XXY Plant Genomics (3)
Detailed analysis of advanced genomic techniques, experimental approaches, and progress in current plant genomic projects.

Net Change in Credit Hours: - 27

ANIMAL SCIENCE

Course to be deleted: ANSC.7150 Digestion (3)
 ANSC.7180 Protein Metabolism (3)

Net Change in Credit Hours: - 6

FACULTY OF SCIENCE

BOTANY

Courses to be deleted: BOTN.5020 Adv Plant Ecology (3)
 BOTN.5070 Adv Taxonomy (3)
 BOTN.5100 Phys Cytology (6)
 BOTN.7150 Phys Cytology (6)
 BOTN.7170 Major (3)
 BOTN.7180 Ancillary (3)
 BOTN.7220 Exp Physiology (3)
 BOTN.7230 Pl Physiology (6)
 BOTN.7300 Phy Par Pl Dis (6)
 BOTN.7360 Ecol Determ 2 (3)

Course to be introduced: **BOTN.7XX0 Plant Systematics (3)**
Lectures and laboratory exercises examining the principles and methods of plant systematics. Emphasis will be placed on phonetic and cladistic techniques and the sources of data used in plant systematics research.

Net Change in Credit Hours: - 39

COMPUTER SCIENCE

| | | |
|------------------------------|----------------------------------|-----|
| <u>Course to be deleted:</u> | COMP.7040 Operation Research | (6) |
| | COMP.7110 Logic Design | (3) |
| | COMP.7150 TH Computability | (3) |
| | COMP.7350 Differential Equations | (6) |
| | COMP.7500 Time Sharing | (6) |
| | COMP.7530 Design of Comp Lang | (6) |

Net Change in Credit Hours: - 30

FACULTY OF ENGINEERING

ELECTRICAL & COMPUTER

Courses to be deleted: ECE.8210 Power Electronic Circuits (3)

Course to be introduced: **ECE.7AA0 Advanced Power Electronics (3)**
AC/DC and DC/DC Converters, Switching Functions, Voltage Source Converters, Advanced PWM Techniques, Analytical Modeling and Simulation, Control System Design, Applications of Power Electronics in Motor Drives and Power Systems, additional topics of current interest.

ECE.7BB0 Biomedical Signal Processing (3)
Presents an overview of different methods used in biomedical signal processing with particular emphasis on problems in biomedical research and clinical medicine. Different types of biomedical signals considering their sources are defined and suitable analysis methods are discussed.

Net Change in Credit Hours: + 3

The course changes were endorsed by the Executive Committee of the Faculty of Graduate Studies via e-mail December 2, 2005.

Report of the Programs and Planning Committee of the Faculty of Graduate Studies on course proposals/modifications/deletions.

Preamble

The Programs and Planning Committee (PPC) of the Faculty of Graduate Studies has the responsibility of reviewing graduate course deletions, modifications and introductions and makes recommendations to FGS Council. PPC met on January 18, 2006 and made the following recommendations regarding the modification in the Faculty of Science and the deletions in the Faculty of Arts.

Observations

1. Number of courses to be modified in the Faculty of Science: one (1) – Chemistry.
2. The course modification in Chemistry entails an amendment to the course prerequisite. Additionally, as this is a topics course, two sample topics were provided.
3. Number of courses to be deleted in the Faculty of Arts: two (2) – Anthropology.
4. The course deletions in Anthropology are being proposed because these courses have not been offered in the past twelve years. They no longer reflect the faculty research and training area.
5. All course deletions and introductions have been approved by the respective unit's Faculty Council.
6. No Statements of Library Support were required for the course modification or deletions.

Recommendation

The Programs and Planning Committee of the Faculty of Graduate Studies recommends that the Faculty Council of Graduate Studies endorse the course changes as indicated below to Senate for approval.

FACULTY OF SCIENCE

CHEMISTRY

Course to be modified:

CHEM.7700 Topics in Analytical Chemistry

Topics of current research interest in analytical chemistry including, but not limited to, mass spectrometry of large molecules, separation techniques, analysis of metals, surface

**Report of the Programs and Planning Committee of the Faculty of Graduate Studies on
course proposals/modifications/deletions.**

analytical techniques, analysis of environmental samples,
analysis of 'real' samples, and sampling techniques.

Net Change in Credit Hours: 0

FACULTY OF ARTS

ANTHROPOLOGY

| | | |
|--------------------------------------|---|-----|
| <u>Courses to be deleted:</u> | ANTH.7770 Human Population Structure I | (3) |
| | ANTH.7780 Human Population Structure II | (3) |

Net Change in Credit Hours: - 6

*The course changes were endorsed by the Executive Committee of the Faculty of Graduate
Studies on February 9, 2006. & Faculty Council Feb. 27/06*

Report of the Senate Committee on Awards respecting Awards - March 2, 2006

Preamble

The Senate Committee on Awards (SCOA) terms of reference include the following responsibility:

"On behalf of Senate, to approve and inform Senate of all new offers and amended offers of awards that meet the published guidelines presented to Senate on November 3, 1999, and as thereafter amended by Senate. Where, in the opinion of the Committee, acceptance is recommended for new offers and amended offers which do not meet the published guidelines or which otherwise appear to be discriminatory under Policy No. 419, such offers shall be submitted to Senate for approval." (Senate, April 5, 2000)

At its meeting on March 2, 2006 SCOA reviewed six new awards offers and three award amendments and reports as follows.

Observation

On behalf of Senate, the Senate Committee on Awards approved and recommends that the Board of Governors approve six new awards and three award amendments as set out in Appendix "A" of the Report of the Senate Committee on Awards (dated March 2, 2006). These award decisions comply with the published guidelines of November 3, 1999, and are reported to Senate for information.

Respectfully submitted,

Diana Kaopansion (for)

Professor R. Baydack, Chair
Senate Committee on Awards

Comments of the Senate Executive Committee:
The Senate Executive Committee endorses
the report to Senate.

APPENDIX "A"

OFFERS

SHEILA CHIPMAN MEMORIAL AWARD

The family of Sheila Chipman has established a memorial award in her honour. Beginning in 2006, one award valued at \$750 will be offered to a student who:

- (1) has completed a minimum of one year of study at the University of Manitoba in any Faculty or School and has completed a minimum of 21 credit hours in the previous academic year;
- (2) has completed a minimum of one year as a Bison student athlete on the Bison Women's Hockey Team;
- (3) has achieved a minimum sessional grade point average of 2.5 in their previous year as a Bison student athlete (preference will be given to those students with a sessional grade point average of 3.25 or greater);
- (4) best exemplifies the qualities of perseverance and dedication to overcoming challenge either personal or that of the team and who consistently subrogates themselves to the interests of the program.

The selection committee will include the Head Coach of the Bison Women's Hockey Team and the Athletic Director (or designate) from the Faculty of Physical Education and Recreation Studies who will serve as chair.

(The terms of this award will be reviewed annually against the criteria of Canadian Interuniversity Sport governing "Athletic award - alumni, private, booster club and corporate funded", currently numbered 50.10.5.6 in the C.I.S. Manual).

MANITOBA MOOSE AWARD

The Manitoba Moose wish to provide an annual award of \$750 to a student who:

- (1) has completed a minimum of one year of study at the University of Manitoba in any Faculty or School and has completed a minimum of 21 credit hours in the previous academic year;
- (2) has completed a minimum of one year as a Bison student athlete on the Bison Women's Hockey Team;
- (3) has achieved a minimum sessional grade point average of 2.5 in their previous year as a Bison student athlete (preference will be given to those students with a sessional grade point average of 3.25 or greater);

SENATE COMMITTEE ON AWARDS REPORT TO SENATE - MARCH 2, 2006

- (4) best exemplifies the qualities of leadership (on and off the ice), tenacity, discipline, and dedication to the team.

The selection committee will include the Head Coach of the Bison Women's Hockey Team and the Athletic Director (or designate) from the Faculty of Physical Education and Recreation Studies who will serve as chair.

(The terms of this award will be reviewed annually against the criteria of Canadian Interuniversity Sport governing "Athletic award - alumni, private, booster club and corporate funded", currently numbered 50.10.5.6 in the C.I.S. Manual).

UMSU - BISON ATHLETES AWARD FOR OUTSTANDING CONTRIBUTION IN ATHLETICS

The University of Manitoba Students' Union (UMSU) wishes to establish awards in support of University of Manitoba student athletes. Fourteen awards valued at \$1,000 each will be offered with a limit of one per Canadian Interuniversity Sport recognized sport or team in any given year. There will be seven awards for female athletes: cross country; basketball; hockey; soccer; volleyball; swimming; track and field; and seven awards for male athletes: cross country; basketball; hockey; football; volleyball; swimming; track and field. Each award will recognize a current University of Manitoba student athlete who:

- (1) has completed a minimum of one year of study at the University of Manitoba in any Faculty or School and has completed a minimum of 21 credit hours in the previous academic year;
- (2) is actively involved with a CIS sports team;
- (3) has achieved a minimum grade point average of 3.0 in the previous academic year as a Bison student athlete;
- (4) has made an outstanding extracurricular contribution to the quality of student life and has exhibited special leadership in athletics on campus.

The CIS team coaches will annually submit nominations for these awards to the chair of the selection committee.

The selection committee will include the Athletic Director (or designate) from the Faculty of Physical Education and Recreation Studies who will serve as chair, the coach(es) of the team(s) and the UMSU President (or designate).

(The terms of this award will be reviewed annually against the criteria of Canadian Interuniversity Sport governing "Athletic award - alumni, private, booster club and corporate funded", currently numbered 50.10.5.6 in the C.I.S. Manual).

AUDREY KOZ MEMORIAL PRIZE

An annual convocation prize has been established in memory of Audrey (Vineberg) Koz (B.Sc.Pharm./56) by Mr. Earl Chochinov (B.Sc.Pharm./55), Mrs. Ethel (Shnider) Chochinov (B.Sc.Pharm./56) and their family. A gold medalist and the senior stick of her class, Ms. Koz entered the field of hospital pharmacy after graduation. Beginning in 2006, a prize valued at \$100 will be offered to a student who:

- (1) has completed the fourth year of study in the Faculty of Pharmacy at the University of Manitoba;
- (2) has demonstrated outstanding merit in Clinical Pharmacy III (currently numbered 46.431) and Structured Practical Experiential Program 4 (currently numbered 46.470) hospital rotation (for 2006 only, the courses are Clinical Pharmacy 2 (46.444) and Pharmacy Practice 4 (46.461)).

The prize will be offered for a period of ten years with the final award offer being made in the spring of 2015.

The selection committee will be named by the Dean of the Faculty of Pharmacy.

JÓN BORGFJÖRÐ BURSARY FOR ICELANDIC STUDIES

An endowment fund initially valued at \$30,000 has been established by Jón Borgfjörð to provide bursary support to students in Icelandic studies at The University of Manitoba. Beginning in 2007, bursaries valued at the available annual interest will be offered to students who:

- (1) have completed the first year of undergraduate study at The University of Manitoba, including one of the prerequisite courses for continued study in the Department of Icelandic, either Modern Icelandic 1 (currently numbered 12.124) or Modern Icelandic 2 (12.224);
- (2) have achieved a minimum cumulative grade point average of 3.0;
- (3) enter into the next ensuing regular academic session in the major, minor or honours program in the Department of Icelandic;
- (4) demonstrate an interest in studying the Icelandic language;
- (5) demonstrate financial need on the standard University of Manitoba bursary application form.

SENATE COMMITTEE ON AWARDS REPORT TO SENATE - MARCH 2, 2006

The selection committee will have the discretion to determine the number and value of scholarships offered annually.

If, in a given year, there are no eligible bursary applicants, the award will be offered as a scholarship.

The selection committee will be named by the Head of the Department of Icelandic.

JILL E. MAYER BURSARY

The family, friends, and colleagues of Dr. Jill Mayer (B.A./64, M.A./87, Ph.D./93) have established an endowment fund in her memory at the University of Manitoba to provide financial assistance and to encourage the academic study of and interest in history. Jill's interest was focused on the European / Austrian / Hungarian empire. After completing her studies at the University of Manitoba, she accepted a position to teach history at Mount Saint Vincent University in Halifax. Beginning in 2006 a bursary, valued at the available annual interest, will be offered to an undergraduate student who:

- (1) is enrolled in at least their second year of study at the University of Manitoba in the major or honours programs in the Department of History;
- (2) has achieved a minimum cumulative grade point average of 2.5;
- (3) has demonstrated financial need on the standard University of Manitoba bursary application form.

The selection committee will have the discretion to divide the available annual interest to offer more than one bursary.

The selection committee will be named by the Head of the Department of History.

AMENDMENTS

BETTY HAVENS CENTRE ON AGING GRADUATE FELLOWSHIP

The value of this fellowship has been increased to \$4,000 (from \$1,000).

JACK MACDONELL SCHOLARSHIP FOR RESEARCH IN AGING

The value of this fellowship has been increased to \$4,000 (from \$2,000).

AMENDED TERMS OF REFERENCE (TRACKING REVISIONS)

INTERNATIONAL GRADUATE STUDENT SCHOLARSHIP

Beginning with the 2005-2006 academic session, scholarships will be offered to recognize and reward the excellence of international graduate students pursuing Master's or Ph.D. degrees at the University of Manitoba. The scholarships, **valued at \$4,000**, will be offered to students who:

- (1) are international students (i.e., those in Canada on study permits) continuing in full-time study in the Faculty of Graduate Studies at the University of Manitoba in either the second year of a two-year Master's program, the second year of a two-year Ph.D. program, the second or third year of a three-year Ph.D. program, or in the first year of a Ph.D. program after completing a Master's degree at the University of Manitoba;
- (2) are paying the international student tuition fee;
- (3) ~~are eligible for and apply for the University of Manitoba Graduate Fellowship (UMGF);~~
- (3) **have achieved a minimum cumulative grade point average of 3.75 over the equivalent of the last two completed years of study;**
- (4) **show great promise as researchers and as graduate students;**
- (5) **are not recipients of external funding that pays for their tuition.**

~~A rank-order list of eligible students will be produced using the UMGF process. Awards will be offered to students with values set according to UMGF ranking with \$6,000 offered to students who have been offered a UMGF and \$5,000 to students who have not been offered a UMGF. Scholarships will be offered until available funds are exhausted. Funding will be confirmed on an annual basis.~~

This scholarship may be held with the UMGF and other awards offered by the University of Manitoba, **but may not be held in conjunction with the International Graduate Student Entrance Scholarship or the International Graduate Student Bursary.** Students may be considered for this scholarship in each year of eligible study. Students who are enrolled in a re-registration year are not eligible.

Scholarships will **first only** be applied against any outstanding **international student** tuition fees **differential**.

This scholarship will be administered by the Faculty of Graduate Studies.

Note: The bolded criteria (3) and (4) are the eligibility requirements for an UMGF and therefore are equivalent to the statement being replaced (original criteria 3).

DR. MURRAY SAMUEL DONNELLY

(published on February 04, 2006 in the Winnipeg Free Press)

It is with great sadness that the family announces the passing of Murray Donnelly on Wednesday, February 1, 2006, at the Victoria General Hospital. Murray will be lovingly remembered and sadly missed by his wife of 59 years, Nancy, son Michael Donnelly (Joanne), daughter Margaret Amyot (Alan), and grandchildren Erin, Sam, Joe and Anna Donnelly and Sarah, Lisa and Michael Amyot. He is also survived by his brother Graham of Mount Hanley, NS.

Murray was born on July 23, 1919, in Port George, NS. He began his schooling in a small one-room school in this fishing community along the shores of the Bay of Fundy. He graduated from Middleton High School and went on to Mount Allison University where he obtained his Bachelor of Arts in 1940. He continued his education at the University of Toronto where he received his Masters Degree in Arts in 1946 and a Ph. D. in 1956. Murray taught as a Lecturer at the University of Toronto (1946-48), followed by a one year term at the University of Saskatchewan (1948-49). In 1949, Murray accepted a teaching position at the University of Manitoba, followed later by a sabbatical year in 1959 as a Visiting Fellow of St. Antony's College, Oxford University. Upon his return he became professor from 1960 until his retirement in 1987. Over the span of his career Murray served as Chair of the Department of Political Science and International Relations and as Provost of University College (1966-1978). He also served as Acting Dean of the Faculty of Arts.

It was at University College that Murray found his calling in the days of student radicalism in the late 60's and early 70's. He regularly invited controversial and topical guest lecturers to the College, often challenging the very core of university values. Murray is remembered for being one of the teaching faculty seen participating in rousing debates with the "radiator radicals" named for sitting on the radiators lining the walls next to the junior common room in University College. Many of his students went on to become leaders in their fields.

In addition to teaching at the University of Manitoba, Murray served for several years on the Board of Governors and the University Senate. He was a member of two Commissions of Enquiry: the Manitoba Royal Commission on Local Government Chaired by Roland Michener (1962-64), and the Commission of Inquiry into Churchill Forest Industries (1971-74) chaired by Mr. Justice Rhodes Smith. As a Constitutional expert, Murray acted as a delegate and advisor to the Manitoba Government at several Canadian Constitutional Conferences. He was invited many times to act as a political commentator for CBC radio and television during Federal and Provincial Elections and on the Canadian Constitutional initiatives. He was a founding member and member of the executive of the Canadian Association of University Teachers (CAUT). He was a Fellow of the Royal Society of Canada. Murray wrote two books, the Government of Manitoba (1963) and Dafoe of the Free Press (1968) as well as numerous scholarly articles. In his later years as an academic he developed a keen interest in the environment which continued throughout the rest of his life. Cross-country skiing, canoeing and golf were among his favourite pastimes.

Murray will be remembered for his dedication to academic life and his family. In lieu of flowers donations may be made to The Murray S. Donnelly Award in Canadian Political Studies at the University of Manitoba or to a charity of your choice. A private family service will be held. The family will hold a reception for friends on Tuesday, February 7, from 3:00 to 5:00 p.m. at 282 Ashland Ave.

JOHN LAURENCE HAMERTON

With deep sadness we announce the death of John Laurence Hamerton on Thursday evening, February 9, 2006, following complications from cardiac surgery. John is survived by his loving family: wife Irene, son Michael (Joy), daughters Susan, Kate (Dino), Sarah (Jim), grandsons Peter (Emily) and baby Keith, sisters-in-law Christine (Peter), Cherry (John), their children, and other family members in England.

John was born in Hove, England on September 23, 1929, the only child of Bernard and Nora Hamerton, who predeceased him. During his early career at the University of London and Guy's Hospital, he collaborated on studies that helped pave the way for bone marrow transplantation, and he became renowned for confirming the correct human chromosome number. In 1969, he was drawn to Canada by the opportunity to create the Winnipeg Children's Hospital's first human genetics department. He continued to develop an international reputation as a researcher, with major contributions in prenatal diagnosis, cytogenetics, and ethical issues relating to the Human Genome Project, while mentoring many scientists and physicians. He was a founding member and former President of the Canadian College of Medical Geneticists, and was instrumental in establishing medical genetics as an independent medical and scientific specialty. He also served as President of the American Society of Human Genetics and the Genetics Society of Canada. John was Distinguished Professor Emeritus at the University of Manitoba, and received many honours and awards, including fellowship in the Royal Society of Canada and honorary fellowship in the Royal College of Physicians and Surgeons of Canada. In 2003, he was given the great honour of being made an Officer of the Order of Canada.

John was an incredibly active man who read widely in many subjects, and whose earlier interests included photography, dog-breeding and hiking. After moving with his family to the country in 1980, he became fascinated by sheep-farming. John and Irene immersed themselves in rural life, and developed Queen's Valley Sheep Farm, a successful enterprise breeding purebred Arcott sheep. John made major contributions to the Manitoban and Canadian sheep industries, and served as President of the Manitoba Sheep Association and Chair of the Canada Sheep Council. John made a second life in the world of sheep-raising.

John was a force of nature, and nothing will fill the void that he has left. He will be sorely missed by members of all the communities he touched, and will be lovingly remembered by his family, many friends, colleagues and former trainees. Thanks to Drs. Menkis and Bell and all the medical and nursing staff at the St. Boniface Hospital SICU for their untiring efforts and kindness. In lieu of flowers, John wished any donations to be made to the Heart and Stroke Foundation of Manitoba or the Department of Biochemistry and Medical Genetics Endowment Fund, University of Manitoba.

Cremation has taken place. A memorial service in celebration of John's life will be held in Theatre A at the Medical School, 730 William Ave., Winnipeg, MB, R3E 3J7, on Thursday, March 23 at 3 pm.

Arrangements by: Birchwood Funeral Chapel, Steinbach and Winnipeg, MB, (888) 454-1030.

Cecile Clayton-Gouthro, Ph.D.

It is with profound sadness that the Faculty of Human Ecology shares the news that Dr. Cecile Clayton-Gouthro died on Saturday, February 11, 2006.

Cecile was a vital force in the Department of Clothing and Textiles (now Textile Sciences) from her arrival as a Lecturer in 1986, to strengthen the areas of history, design and fashion, through her advancement to Associate Professor. During this time she completed an Interdisciplinary Ph.D. at the University of Manitoba, combining programs in Clothing and Textiles, Art History, History and Theatre; this blend of areas reflected her unique ability to integrate the historical with the contemporary, art with textiles, form with function, and costume with colour and design. At a time when art and style are often driven by trends rather than design, she was able to create a complex world in which history and anthropology merged with creative work and fashion.

Her passion for the history of costume was widely known and appreciated by her colleagues and students in her courses on Applied Colour in Design, Fashion Illustration, History of Clothing and Fundamentals of Design. The quality of her teaching was recognized in her receipt of the Manitoba Association of Home Economists Excellence in Teaching Award, and she was presented with a University of Manitoba Outreach award in honour of her significance to the wider art and museum communities

She was instrumental in developing, sustaining and expanding the Clothing and Textiles Hallway Museum into an internationally recognized collection of artifacts which represent the history of Manitoba, as viewed through the evolution of clothing and textile products. The significance of her effort in this regard is reflected in the recent intact absorption of all the artifacts into the Costume Museum of Canada in Dugald, which now contains more than 35,000 artifacts spanning 400 years.

She received numerous grants and awards to support her extensive creative works. Her exhibitions were viewed throughout Canada and the United States, and enhanced Winnipeg and the University of Manitoba. Her creativity and imagination were demonstrated in a recent exhibition which extended beyond static imagery, incorporating music and dance during the opening. A selfless and committed model for others, she provided guidance and support to students as they developed international experience and recognition for their design skills and insight.

All who were blessed to know Cecile will mourn her death and miss her sensitivity, insight, kindness, encouragement, drive, vitality and joy of life.



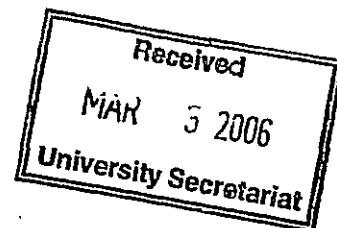
UNIVERSITY
OF MANITOBA

Office of the
Vice-President (Academic) & Provost

208 Administration Building
Winnipeg, Manitoba
Canada R3T 2N2
Telephone (204) 480-1408
Fax (204) 275-1160

02 March 2006

Mr. Curtis Nordman
Acting Executive Director
Council on Post-Secondary Education
410 - 330 Portage Avenue
Winnipeg, Manitoba
R3C 0C4



Dear Mr. Nordman,

**Statement of Intent:
Master of Fine Arts**

On behalf of The University of Manitoba, I am pleased to submit the attached Statement of Intent to establish a new Master of Fine Arts degree program in the School of Art.

This would be the first graduate degree in the School of Art, and traditionally the MFA is regarded as the terminal academic degree in fine arts. The overall objectives of the program are (i) to provide a graduate context where students make an original contribution to knowledge in the visual arts; (ii) to prepare graduates for careers in professional capacities, including academic appointments in post-secondary education; (iii) to enhance the research component within the School of Art; and (iv) to link fine art with others fields of advanced study. Over time, the School will accommodate graduate students specializing in ceramics, drawing, graphic design, painting, photography, printmaking, sculpture, and video. It is expected that about eight students would be admitted annually, with no more than twenty-four being in residence at any point in time.

Implementation of this new program would require substantial additional financial support from COPSE, details of which will be incorporated in the full program proposal.

My colleagues and I will be pleased to provide any other information that your Council may require during its consideration of this Statement of Intent.

Yours sincerely,

A handwritten signature in dark ink, appearing to read "R.A. Lobdell", written in a cursive style.

Richard A. Lobdell
Vice-Provost (Programs)

Encl.

cc Emőke J.E. Szathmáry, President
 Robert Kerr, Vice-President (Academic) and Provost
 Jay Doering, Dean, Faculty of Graduate Studies
 Celia Rabinovitch, Director, School of Art
 Jeff Leclerc, University Secretary

STATEMENT OF INTENT

Institution

- | | |
|--|--|
| <input type="checkbox"/> Brandon University | <input type="checkbox"/> Assiniboine Community College |
| <input checked="" type="checkbox"/> University of Manitoba | <input type="checkbox"/> Keewatin Community College |
| <input type="checkbox"/> University of Winnipeg | <input type="checkbox"/> Red River Community College |
| <input type="checkbox"/> Collège Universitaire de Saint-Boniface | |

Program Overview

☐ Program Name: Master of Fine Arts Program

☐ Credential to be offered: Master of Fine Arts (M.F.A.)

☐ Does the program require accreditation from a licensing group? ☐ YES ☒ NO
If yes, name group

☐ Length of the program: Two ☒ Years ☐ Months ☐ Semesters

☐ Proposed program start date: 01/09/2007
Day/Month/Year

☐ Which department(s) within the institution will have responsibility for the program?
School of Art

☐ As compared to other programs your institution will be proposing, the priority of this program is:

- ☒ High
☐ Medium
☐ Low

☐ Is this a new program? ☒ YES ☐ NO

☐ Is this a revision of an existing program: ☐ YES ☒ NO
If YES, name program
What are the impacts of changing this program?

☐ Will the program be available to part-time students? ☐ YES ☒ NO

☐ Will this program have a cooperative education component? ☐ YES ☒ NO
If YES, how long with the field placement be?

☐ Will the program contain an option to assess the prior learning of students, to grant credit for the skills/knowledge already present? ☐ YES ☒ NO
Provide Details

☐ Will there be distance delivery options? ☐ YES ☒ NO
Provide Details

JAN 16 2006 FAS

☐ Are similar programs offered in Manitoba or other jurisdictions?
If YES, indicate why this program is needed (e.g., area of specialization)
There are other programs in North America, but not in Manitoba.

☐ YES ☒ NO

☐ What articulation, block transfer or credit transfer arrangements
will you be looking at developing for this program?

A maximum of six credit hours of transfer credit will be permitted. Coursework must be from an accredited institution and must be evaluated for equivalency to the appropriate M.F.A. course.

Specific Program Information

1. Program Description

☐ Describe the program and its objectives:

The M.F.A. is the terminal degree in fine arts.

Objectives:

-To provide a graduate context where students make an original contribution to knowledge in the visual arts.

-To prepare graduates for careers in professional capacities.

-To enhance the research component of faculty in the School of Art.

-To link art with other fields of advanced study. SSHRC's new research/creation strategic initiatives have been in place since 2003, and demonstrate an increasing connection between creative practice, research and scholarship.

☐ Provide an overview of the content to be taught in this program:

A minimum of 36 credit hours of course work (of which 30 credit hours are core, and 6 credit hours are elective) and a thesis (which consists of both a written thesis and a solo exhibition).

Required courses:

Graduate Seminar 1 (3), Graduate Seminar 2 (3), Visiting Artist Program 1 (3), Visiting Artist Program 2 (3), Art Theory 1 (3), Contemporary Art Theory (3), Studio Concentration 1 (6), Studio Concentration 2 (6)

Areas of Specialization: Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, Sculpture, Video

2. Enrollment

☐ What is the program's initial projected enrollment? 8

☐ What is the projected enrollment for the 2nd and 3rd years? 2=16, 3=18-24

☐ Describe the expected student profile?

A graduate, with high academic standing, from a recognized B.F.A. program, with a fine art portfolio and ideally, three years of professional experience beyond completion of the undergraduate program.

3. Labour Market Information

☐ What labour market need is the program expected to meet?

Graduates will work in a wide range of professional capacities: university teaching; artistic practice; gallery/museum work; publishing, advertising, design, media and communications; and in public and private sector art venues.

☐ Are there currently jobs in Manitoba in this field?

☒ YES

☐ NO

If yes, where (geographic location and industry)?

Major urban areas and smaller developing centers.

☐ What is the future job forecast for individuals with this education/training/credential?

Film, design, film editing, television, arts administration, teaching in the public school system or in higher education, creative entrepreneurship and leadership, new media and cultural industries.

☐ How does this program fit with Manitoba's stated economic, social and other priorities?

By introducing an M.F.A. program, the University of Manitoba commits to further develop the future of culture industries in Manitoba. This program will develop the artists and designers of this region, and also provide the creative entrepreneurial thinking that artists increasingly provide in private and corporate sectors. As M.F.A. graduates from diverse educational and cultural backgrounds find employment in local culture industries, the Province will grow creatively with this infusion of intellectual capital. The interdisciplinary and new media (CMAD) components of the program address the provincial government's desire for collaborations in emerging technologies.

☐ What agencies, groups, institutions will be consulted regarding development of the program?

Winnipeg Art Gallery and other local art galleries, arts groups, CMAD affiliated Faculties at the University of Manitoba, and School of Art Alumni.

Space considerations for the M.F.A. program - The School of Art currently is assessing all of its space needs with a view to accommodating the specialized requirements of the graduate program.

4. Financial Information

☐ Projected Program Costs: Salary
 Operating
 Capital
 Total cost

☐ Projected Program Revenue: Tuition
 Other_
 Total revenue

Additional resources will be required to deliver this program.
Details to follow in full proposal.

Submitted by:

Dr. Celia Rabinovitch *CELIA RABINOVITCH*
Name (print)

Director, School of Art
Position


Signature

January 12, 2006
Date



UNIVERSITY
OF MANITOBA

Faculty of Graduate Studies
John (Jay) Doering, Ph.D., P.Eng., FCSCE
Dean

500 University Centre
Winnipeg, Manitoba
CANADA R3T 2N2
Ph: (204) 474-9887
Fax: (204) 474-7553

MEMORANDUM

Date: 18 January 2006
To: Dr. Richard Lobdell, Vice-Provost Programs
President's Office
From: Dr. Jay Doering, Dean
Faculty of Graduate Studies
Re: SOI – Master of Fine Arts

Please find attached the SOI for the Master in Fine Arts, which was discussed at the 29 November 2005 FGS Programs and Planning Committee meeting. I assume you will forward this to COPSE on behalf of The University of Manitoba. Given your remarks, my fingers are crossed!

If FGS can be of further assistance at this time, please let me know.

UNIVERSITY OF MANITOBA
JAN 20 2006
OFFICE OF THE PRESIDENT

xc: S. Hernandez-Ramdwar



UNIVERSITY
OF MANITOBA

Office of the
Vice-President (Academic) & Provost

208 Administration Building
Winnipeg, Manitoba
Canada R3T 2N2
Telephone (204) 480-1408
Fax (204) 275-1160

February 01, 2006

TO: Jay Doering, Dean, Faculty of Graduate Studies
Dean Sandham, Dean, Faculty of Medicine

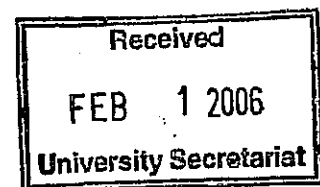
FROM: Dr. Robert Kerr, Vice-President (Academic) & Provost

SUBJECT: Master of Public Health Program

We have received formal approval from COPSE for the establishment of the Master of Public Health program. Because these programs require no additional resources, I am pleased to authorize its implementation immediately.

RK/sc

- c Emőke J.E. Szathmáry, President
- John O'Neil, Head, Department of Community Health Sciences
- Richard Lobdell, Vice-Provost (Programs)
- Jeff Leclerc, University Secretary
- Neil Marnoch, Registrar





UNIVERSITY OF MANITOBA | Office of the
Vice-President (Academic) & Provost

208 Administration Building
Winnipeg, Manitoba
Canada R3T 2N2
Telephone (204) 480-1408
Fax (204) 275-1160

February 01, 2006

TO: Jay Doering, Dean, Faculty of Graduate Studies
Dave Witty, Dean, Faculty of Architecture

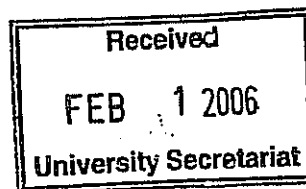
FROM: Robert Kerr, Vice-President (Academic) & Provost

SUBJECT: Ph.D. Programs in Design and Planning

We have received formal approval from COPSE for the establishment of Ph.D. programs in Design and Planning. Because these programs require no additional resources, I am pleased to authorize their implementation immediately.

RK/sc

- c Emőke J.E. Szathmáry, President
- Richard Lobdell, Vice-Provost (Programs)
- Jeff Leclerc, University Secretary
- Neil Marnoch, Registrar



PRESIDENT'S REPORT: April 5, 2006

My last report to Senate was submitted for its meeting on February 1, 2006. Part A of this report is organized into sections on General, Academic, Research, Administrative, and External matters. Part B contains a list of significant external engagements during the time period of this report.

I. GENERAL

1. Provincial Budget

The Provincial Budget was announced on March 6, 2006 and has been hailed as a “good news” budget. It includes a 5.8% increase in operating funds for 2006-2007, and for the first time a commitment for a three-year funding level with provision for a 5% increase in each of the next two years (indeed Honourable Diane McGifford, Minister of Advanced Education and Training, in announcing the details of the allocations to universities and colleges at a news conference on March 8 announced that the increase for 2007-2008 would be “a minimum of 5%”.) I have publicly acknowledged the efforts that the minister and her government have made in addressing the fiscal requirements of universities and colleges.

Though the Provincial budget was “good news” in some respects, it is not an entirely “good news” budget. In a normal year, a 5.8% increase would be adequate to maintain existing programs, indeed, might even allow us to move on some new initiatives. However this year, the grant announcement needs to be viewed in the context that our budget request was for an 8.9% increase in our base grant, of which 5.5% is required to maintain the current level of operation and the remaining 3.4% is needed to replace the \$6.9 million, one-time only funding that was provided by the Province last year. That \$6.9 million is equal to the funds that would have been generated had the ancillary fees approved by the Board of Governors in May 2005, been instituted.

It is important to note that since baseline commitments had been made against the \$6.9 million in 2005-06, the grant increase for 2006-07 is equivalent to only 2.4% in new funding (i.e., $5.8\% - 3.4\% = 2.4\%$). As a result, significant financial challenges remain and work continues on development of possible solutions to address the resultant shortfall. The final operating budget recommendations will be presented to the Board at its May 23, 2006, meeting.

The allocations by COPSE to individual universities for 2005-2006 can be summarized as follows:

For Post-Secondary Education (across the province)

- an increase of 6.2% to the post-secondary sector, or 7.0% when property tax

savings are factored in (compared to 3.1% and 4.0% respectively for 2005-2006)

- the capital envelope for universities and colleges is \$14,211,700 (compared to \$13,720,600 in 2005-2006)

For the University of Manitoba

- the operating grant for 2006-07 is:

| | |
|--|----------------------|
| Base Operating grant | \$217,465,500 |
| ACCESS programs | 2,850,200 |
| Strategic Programs funding approved in 2005/06 | 39,100 |
| System Restructuring projects | 104,100 |
| Aboriginal Child and Family Services diploma | 210,200 |
| Total Operating grants | \$220,669,100 |

The operating grant includes a 5.8% increase in base grant (compared to 2.25% in 2005-06), and a 7.8% increase to ACCESS programs (compared to 1.8% in 2005-06)

- The capital grant allocation for renovations and equipment is \$3,020,000 (same level as previous years)
- major capital project funding is:

| | |
|---|--------------------|
| Fire Safety upgrades | \$450,000 |
| Fort Garry Chiller System (final payment) | 1,783,500 |
| Capital Campaign (Final Payment) | 3,000,000 |
| Storm Outfalls, Sewer System upgrade | 356,500 |
| Total Major Capital Projects | \$5,590,000 |

- tuition rebate grants will continue to be paid, based on invoices submitted for 10% of the tuition fees collected for credit programs.

Other

- The Manitoba Graduate Scholarship Program will be increased by \$657,500 bringing the fund to \$1.35 million on a commitment of \$2 million.

- The Manitoba Bursary fund will increase by \$1.4 million to a total of \$8.1 million to ensure that student debt levels remain affordable.
- The Manitoba Scholarships and Bursary Initiative (MSBI) remains at \$5 million and is used to match private donations.
- Tuition levels will remain at 10% below 1999 levels except where increases have been approved by the Province.
- \$264,400 in new funding to fulfill the commitment to expand the number of spaces for medical students to 100.

2. **Special Convocation**

On March 8, 2006, I presided at a Special Convocation held Anchorage, Alaska, where Chancellor William Norrie conferred an honorary Doctor of Science degree upon Dr. William J. Mills. Approximately 40 people were present, including Mrs. Helen Norrie, University of Alaska Anchorage Chancellor Dr. Elaine Maimon, Dr. Gordon Giesbrecht, who was mentor to Dr. Mills, and Mr. Jeff Leclerc, the University Secretary.

Dr. Mills is a physician and orthopaedic surgeon, whose research on cold body physiology revolutionized the treatment of frostbite and hypothermia. He was scheduled to receive his honorary degree at the October 2005 Convocation, but ill health prevented his attendance.

The decision to award Dr. Mills his degree at a special Convocation in Anchorage rested on three factors: Dr. Mills was uncertain if he could attend a regular session of Convocation in the future; I planned to attend the annual meeting of the American Association of Physical Anthropologists, held in Anchorage in 2006 during the second week of March; Chancellor Norrie and Mrs. Norrie were planning to return to Winnipeg from a personal visit west during the second week of March. The factors intersected happily, and a distinguished scientist became the newest graduate of the University of Manitoba in Anchorage during the second week of March 2006.

United Way Update

Once again the commitment to the United Way and the generosity of University staff, retirees, and students, have resulted in the University of Manitoba's United Way Campaign for 2005 raising more funds than in the previous year. The overall University Campaign raised \$443,440, an increase of 1.4%. The Fort Garry campaign raised \$234,682 (2.8% decrease), the Bannatyne campaign raised \$135,781 (3.9% increase), and \$72,976 (11.9% increase) was pledged by retirees. The Fort Garry total includes \$5,000 donated by UMSU from the proceeds of a pre-Christmas social event, and \$10,219 from the Rainbow Auction organized by academic and administrative units. The amount raised by the University campaigns is significant and is second only to the Government

of Canada Campaign in the "top 50 workplace campaigns".

Our appreciation is extended to the large number of volunteer canvassers and contributors as well as to Dean Dennis Hrycaiko, Physical Education and Recreation Studies, and Ms. Debbie Brown, The Libraries, co-chairs of the Fort Garry Campaign; to Ms. Lesley Crisostomo, Community Health Sciences, chair of the Bannatyne Campaign; to Irv Gusdal, chair of the Retirees' Campaign; and to Dr. Norm Hunter, Chemistry, chair of the Leaders' Campaign. I also extend appreciation for the contributions that Dr. Janet Hoskins, Warden of St. John's College, made to the overall United Way Campaign as chair of the Universities and Colleges Division.

4. Federal Cabinet

Prime Minister Stephen Harper has named his first Cabinet and of particular interest to the University are the following:

Agriculture and Agri-Food and the Canadian Wheat Board
The Minister – The Honourable Chuck Strahl (Chilliwack – Fraser Canyon, BC)
The Parliamentary Secretary – David Anderson (Cypress Hills – Grasslands, SK)

Citizenship and Immigration
The Minister – The Honourable Monte Solberg (Medicine Hat, AB)
The Parliamentary Secretary – Ed Komarnicki (Souris – Moose Mountain, SK)

Health and Federal Economic Development Initiative for Northern Ontario
The Minister – The Honourable Tony Clement (Parry Sound – Muskoka, ON)
The Parliamentary Secretary – Steven Fletcher (Charleswood – St. James – Assiniboia, MB) (**U of M graduate**)

Human Resources and Social Development
The Minister – The Honourable Diane Finley (Haldimand – Norfolk, ON)
The Parliamentary Secretary – Lynne Yelich (Blackstrap, SK)

Indian Affairs and Northern Development and Federal Interlocutor for Métis and Non-Status Indians
The Minister – The Honourable Jim Prentice (Calgary Centre-North, AB)
The Parliamentary Secretary – Rod Bruinooge (Winnipeg South) (**U of M graduate**)

Industry
The Minister – The Honourable Maxime Bernier (Beauce, PQ)
The Parliamentary Secretary – Colin Carrie (Oshawa, ON)

National Revenue and Western Economic Diversification
The Minister – The Honourable Carol Skelton (Saskatoon – Rosetown – Biggar, SK)

The Honourable Vic Toews, Member of Parliament for Provencher, and a graduate of the University of Manitoba, was appointed as Minister of Justice and Attorney General of Canada. As the only MP from Manitoba appointed to Cabinet, he will also serve as Manitoba's regional minister.

II. ACADEMIC MATTERS

Faculty of Agricultural and Food Sciences

- Eve Froehlich, M.Sc. student in Agribusiness and Agricultural Economics, is a recipient of the Douglas McRorie Memorial Scholarship. Ms. Froehlich was one of six graduate students across Canada who was awarded this scholarship by the Agricultural Institute of Canada Foundation.
- Deji Dunmola, M.Sc. student in Soil Science, has been awarded the Syngenta Graduate Scholarship for Sustainable Agriculture based on his academic performance and contribution of research to sustainable agricultural systems.

Faculty of Architecture

- Architecture graduate Michael Acht, Masters of Architecture (2004), will have the opportunity to research the architecture of Portugal, Switzerland and Germany as the winner of the Canada Council for the Arts' Prix de Rome in Architecture for Emerging Practitioners. The \$34,000 prize is awarded to a recent graduate of one of Canada's ten accredited schools of architecture, who demonstrates exceptional potential.
- Jason Kun, Masters of Architecture (2004) received the Award of Excellence for his project, 'AMP'. The award was announced in the December 2005 edition of *Canadian Architect*. The AMP Building is a primarily subterranean performance, assembly and cultural centre in the heart of Winnipeg's historic Exchange District. The building was the culmination of a series of experiments investigating the relationship between sound and architecture with the goal being to explore the potential of sound as the primary focus in the conception, design and organization of architectural space.

School of Art

- Dr. Oliver Botar, recently curated an exhibition at The City University of New York in Manhattan. The exhibition featured the works of Hungarian-born Bauhaus artist László Moholy-Nagy. This exhibition will move to The State University of New Jersey in September.

Faculty of Arts

- Dr. Jacquie Vorauer, Psychology has been appointed Associate Editor of the *Journal of Personality and Social Psychology's* section on Interpersonal Relations and Group Processes (IRPG). This journal of the American Psychological Association publishes original papers in all areas of personality and social psychology, and is the leading journal in the field of social psychology.

Clayton H. Riddell Faculty of Environment, Earth, and Resources

- Dr. Rick Baydack, Associate Dean, was selected as a member of The Wildlife Society Strategic Planning Committee. The Committee, limited to 12 members from across North America, will initiate an inclusive planning process designed to identify goals and priorities for the next 5-10 years in the development of wildlife professionals, educators, and students.

Faculty of Dentistry

- The Faculty and the Manitoba Dental Association (MDA) teamed up with the Manitoba Children's Museum to make oral health fun for children, by sponsoring a traveling exhibit at the museum to provide a historical look at toothbrushes and ignite children's curiosity about the importance of the oral hygiene. *The Branches, Bristles and Batteries: Toothbrushes Through Time* exhibit features five interactive displays that illustrate the evolution of the toothbrush with samples dating back 4,000 years. Children learn how to brush away plaque and identify healthy snacks, and a virtual station introduces Brushella the tooth fairy, who helps children design toothbrushes.
- A new partnership between the Faculty and Variety, the Children's Charity of Manitoba, has resulted in a program that provides free dental care to some children of families with limited economic means. Variety has committed \$100,000 over three years to the Program.

I.H. Asper School of Business

- Regan Stevenson and Marko Bebek, fourth year students, won first place in the UBC Enterprise National Business Planning Championship. The first prize package valued at \$85,000 includes \$10,000 cash, \$25,000 BDC financing and \$50,000 consulting credit.
- The Business Policy team placed third in Queen's University's Intercollegiate Business Competition. To be in the finals a team had to rank in the top 6 in the preliminary round. The teams are given 5.5 hours to read and analyze the case, and prepare a 20 minute presentation.
- Dr. Ed Tyrchniewicz, Associate Dean, presented a keynote address to the Canadian Agrifood Policy Institute agricultural policy forum on the subject "Enhancing Canadian Farm Income: Opportunities for the Future". The audience included the new federal

Minister of Agriculture as well as senior government officials from across the country and CEOs from a wide range of agribusiness firms.

Faculty of Law

- Students Lana Jackson and Eric Hachinski won the Sopinka Cup National moot Competition in Ottawa. This is the third time in the seven year history of the Sopinka Cup that students from the University of Manitoba have been recognized as the top "mooters" in the country. This remarkable record is evidence of the quality of the Faculty's advocacy programs and the many experiential learning opportunities available to students.

Faculty of Nursing

- Dr. Lesley Degner has been named the 2006 Distinguished Researcher by the Oncology Nursing Society. The honour recognizes her outstanding contributions through research that have enhanced the science and practice of oncology nursing. The Society is a national organization of more than 33,000 oncology nurses and other healthcare professionals dedicated to excellence in patient care, education, research, and administration in oncology nursing.

Student Affairs

- Lianne Paturel, Director, Student Recruitment, and Garry Dyck, Director, English Language Centre, recently visited Russia and Turkey to represent the University of Manitoba at the Canadian Education Centre Network student recruitment fairs. This is the second visit to Russia for the University of Manitoba. This year the fairs were held in St. Petersburg and Moscow, Russia and in Ankara and Istanbul, Turkey.

III. RESEARCH MATTERS

Honours and Distinctions

- A team of University of Manitoba researchers led by Dr. Robert Hill, Plant Science, is the first in the world to discover a receptor for an important plant hormone called abscisic acid (ABA). The discovery, published in the January 19, 2006 edition of the scientific journal *Nature*, represents a major leap forward in our understanding of plant growth and development. ABA is a survival hormone. In addition to regulating the timing of germination and flowering, ABA controls the plant's response to environmental stresses. Dr. Hill and his team have discovered that a protein called FCA is a receptor for ABA. With this knowledge, scientists can potentially unlock the ability to influence a plant's response to stresses like cold, drought and excess salt, which will have particular significance to agriculture and forestry industries.

Dr. Hill, along with postdoctoral fellows Dr. Fawzi Razem and Dr. Ashraf El Kereamy, collaborated on the project with Dr. Suzanne Abrams from the National Research Council Plant Biotechnology Institute in Saskatoon and researchers in the U.K.

- Nursing Professor Dr. Lesley Degner, recipient of the 2005 Dr. John M. Bowman Memorial Winnipeg Rh Institute Foundation Award, was honoured at an invitational dinner held at the University Club on January 5, 2006. Close to 90 people attended the dinner, which was hosted by University of Manitoba President Dr. Emőke Szathmáry, and included remarks by Mr. Terry Falconer, Chairman of the Winnipeg Rh Institute Foundation. Following the dinner, Dr. Degner gave a public lecture in the Drake Centre titled, *A Nursing Research Odyssey: the Inspiration, the Process and the Future*.
- Dr. Frank Hawthorne, Distinguished Professor in the Department of Geological Sciences, has been named as an Officer of the Order of Canada. Dr. Hawthorne, who holds a Canada Research Chair in Crystallography and Mineralogy, was honoured for his outstanding contributions to Canadian geology research. In 1995, Dr. Hawthorne discovered a new crystalline mineral now named Frankhawthorneite in his honour.

Grants Received and/or Applied For

- The Canadian Institutes of Health Research (CIHR) has announced the results of the Fall 2005 competition, and fifteen faculty members have received awards as follows:
 - ▶ Dr. Brenda Elias, Community Health Sciences, was awarded \$419,745 over five years for her project, "The Social Environment and the Health of First Nations Women and Men."
 - ▶ Dr. Brent Fedirchuk, Physiology, was awarded \$443,230 over five years for his project, "Mechanisms Regulating the Excitability of Spinal Motoneurons During Motor Activity."
 - ▶ Dr. Phillip Gardiner, Physiology, was awarded \$426,970 over five years for his project, "Aging of Alpha-Motoneurons: Electrophysiology, Gene Expression, and Caloric Restriction."
 - ▶ Dr. Cheryl Greenberg, Pediatrics and Child Health, and Dr. Barbara Triggs-Raine, Dr. Klaus Wrogemann, and Dr. Theresa Zelinski, all from the Department of Biochemistry and Medical Genetics, were awarded \$327,963 over three years for their project, "Cloning and Characterization of the Bowen Conradi Syndrome Gene."
 - ▶ Dr. Brian Hasinoff, Pharmacy, was awarded \$445,905 over five years for his project, "Molecular Mechanisms of Oxygen Free Radical Damage and Its Prevention by Antioxidants."

- ▶ Dr. Brian Schmidt, Internal Medicine, was awarded \$534,845 over five years for his project, "Propriospinal Neurons Activating and Controlling Locomotion."
- ▶ Dr. Roberta Woodgate, Nursing, was awarded \$531,552 over four years for her project, "Development and Testing of a Computer Video- Game Approach Designed for Self-Assessment and Management of Meaning-Centred Symptom Experiences by Children with Cancer."
- ▶ Dr. Klaus Wrogemann and Dr. Hao Ding, Biochemistry and Medical Genetics, were awarded \$657,255 over five years for their project, "The Role of TRIM32 in Sarcotubular Myopathy (STM)/Limb Girdle Muscular Dystrophy Type 2H (LGMD2H)."
- ▶ Dr. Jeffrey Wigle, Biochemistry and Medical Genetics, was awarded \$431,860 over five years for his project, "Determining the Roles of Meox1 and Meox2 Homeobox Proteins in Vascular Development."
- ▶ Dr. Peter Cattini, Physiology, was awarded \$557,310 over five years for his project, "Functional Characterization of the Cardiac Fibroblast Growth Factor FGF-16."
- ▶ Dr. Shetuan Zhang, Physiology, was awarded \$427,425 over five years for his project "Molecular Mechanisms of Regulation of HERG Channel Conductance by Extracellular K⁺ Ions."
- Dr. Shirley Thompson, Natural Resources Institute, received a Social Sciences and Humanities Research Council of Canada (SSHRC) Northern Research Development Grant of \$40,000 over two years for her project, "Priorities for Health and Sustainability in the Northern Prairies: Listening to Aboriginal Communities Regarding Environmental Service Delivery."
- Dr. Gary Wang, Mechanical & Manufacturing Engineering, received an Natural Sciences and Engineering Research Council of Canada (NSERC) Collaborative Research and Development grant of \$49,450 over two years for his project, "Mixed Variable Meta-modelling and Optimization and Application to Power Transfer Capability Analysis of Manitoba-Ontario Electrical Interconnections."
- Dr. Martin Nyachoti, Animal Science, received an NSERC Collaborative Research and Development grant of \$75,000 over three years for his project, "Digestible Amino Acid Contents in Feedstuffs for Poultry: A Basis For Accurate Feed Formulation."

- Dr. Gregory Bridges, Electrical & Computer Engineering, received an NSERC Collaborative Research and Development grant of \$68,126 over two years for his project, "Time-Domain Modelling of Electromagnetic Interactions in Power-System Transmission Line Networks."
- Dr. Qingjin Peng, Mechanical & Manufacturing Engineering, received an NSERC Collaborative Research and Development grant for \$17,280 for his project, "Improvement of the Digital Recognition System to Detect Ice Accretions on Conductors."

Program Initiatives

- The third lecture in the 2005-2006 *This Lunch Hour Has 33 Minutes* speaker series was held at the Bannatyne Campus on Tuesday, February 7. The featured speaker was Dr. Cyrus Shafai, Electrical & Computer Engineering, and director of the Nano-Systems Fabrication Laboratory, who spoke on "Nanotechnology: Nano-Systems in our Future".

IV. ADMINISTRATIVE MATTERS

Strategic Resource Planning

- Deans and Directors presented their Strategic Resource Plans to the President and Vice-Presidents in January 2006. The President and Vice-Presidents subsequently outlined their priorities for their respective units to the Budget Advisory Committee in February.
- Work continues on developing budget recommendations for the Board of Governors to consider at its May meeting, based on discussions with the Budget Advisory Committee and the Provincial government announcement.

Information Services and Technology

- Administrative Systems Renewal:
 - Technical work continues on the Finance project and is focussing on building and testing interfaces and testing reports.
 - A successful mock registration was completed for the Student project in February. This exercise tested the set up of the student system and a variety of student

transactions. Though issues emerged, the system functioned as expected, providing confidence to all involved.

- ▶ A priority for the Human Resources VIP system after March year end is to switch the legacy general ledger accounts embedded in the system to the new Finance System.

Ancillary Services

- On February 16, 2006 an open house was held to showcase the Arthur V. Mauro Residence for both internal and external clients, while outlining the conference services the University of Manitoba has to offer.
- Pharmacy Care Days clinics continue for 2006 with a Cholesterol Testing Clinic held in January and a Blood Pressure Testing Clinic held in February.
- Student Parking Online will soon be replacing the existing telephone phone-based system. With the implementation of the Aurora Student System, the existing PhoneReg (phone-based course registration and parking application) system is being decommissioned effective July 1, 2006.

Physical Plant

- Status of Building Projects:
 - **Bannatyne Parkade** - Precast is nearly complete; sub trades are on site and beginning to install conduits and boxes for electrical components. Mechanical trades on site and the underground plumbing is installed.
 - **EITC** – Renovation work in Engineering 1 is ongoing. All of the exterior windows in Engineering 1 have been replaced. Interior demolition is 99% complete. Pouring of the new slabs is about 90% complete. Steel stud framing for the new interior walls has started, the 500 level is 60% complete and the 300 and 400 levels are 50% complete. Drywall and painting have also started on the 400 and 500 level. Mechanical and electrical rough-ins are nearly complete on all levels. Main electrical distribution panels have been located and service is being brought in.
 - **National Centre for Livestock and Environment (NCLE)** -The project has substantial completion on all three barns.

- **Russell Building Exterior Wall Upgrade** - All exterior work (other than seasonal work) has been completed. The curtain wall, precast panels and precast columns are installed. Curtain wall framing and precast panel installation are complete. Ceiling and lighting replacement are nearing completion, as well as voice data and sprinkler upgrading projects.
- **Aboriginal Student Centre** - Design revisions continue. The project will be ready for tender in June 2006.
- **Pharmacy Building** - Final drawings are expected for early March. The tender dates will be finalized shortly.
- **Remote Library Storage Building** - Meetings have been held recently with the Libraries to review the building design.
- **Joyce Fromson Swimming Pool** - A two-phase project involving removal of the acoustic installation and ceiling and lighting installation is now complete. The final phase will proceed during the pool shutdown which is scheduled for August 15 to September 16, 2006.

Human Resources

- Grant McCaughey, Director, Environmental Health & Safety, made a presentation in January to the Canadian Society of Safety Engineering on the University's Construction Safety Program. He also gave a presentation at the Annual Construction Safety Conference.

Emergency Response Planning

- The University of Manitoba is developing a detailed plan to outline preparedness in the event of an influenza pandemic. In this context, The Vice-President (Administration) chairs a Flu Pandemic Planning Committee with participation from senior staff, faculty and UMSU. Target date for completion of this plan is June 2006. This plan will eventually be expanded into a Disaster Preparedness Plan and a Business Continuity Plan.

The committee has met twice, and has received a presentation from Dr. Eilish Cleary, Manitoba Representative on the Canadian Pandemic Influenza Committee. On going meetings will be held to develop guidelines for the University of Manitoba which will be coordinated with the Provincial guidelines. Subcommittees have been formed in:

- Academic Issues

- ▶ Physical Plant
- ▶ Communications
- ▶ Residences
- ▶ HR/Payroll
- ▶ Health & Safety
- ▶ Research/Animal care
- ▶ Preventive Measures

Smart Park

- Smartpark hosted an Executive Luncheon on Monday, February 27th for senior managers from each of the 15 tenant companies within the Park and Smartpark's Board of Directors. This luncheon provided a networking opportunity for executives in the Park and board members to share ideas and discuss their business experiences.
- Smartpark presented a Scientific Research and Experimental Development (SR&ED) tax credit workshop on Monday, February 20th for Smartpark tenants and researchers from the University of Manitoba.
- The annual Open House for Fort Richmond Residents is scheduled for Wednesday, March 29th in the lobby boardroom of 135 Innovation Drive from 7-8:30 P.M. Invitations will be mailed to approximately 200 residents immediately to the south of Smartpark and a flyer will appear in the Ad Bags for an additional 2000 homes in the Fort Richmond area. As well, a community notice will be placed in *The Lance* to advertise this event.

Financial Services

- The Aurora Finance Purchasing module is now live. Although a significant number of interfaces and reports still need to be completed in order to have a fully functioning system, the remaining modules are on target for April 1, 2006. Training on Aurora Finance is underway. At the end of training, 81 sessions will have been held with total participation at about 1800
- Payroll staff prepared and distributed 18,917 T4s and T4As, and this was accomplished one week ahead of the deadline.

V. EXTERNAL MATTERS

Special Events:

- On March 2, an announcement was made at Glenlea of the \$300,000 collective gift from the Hutterite Colonies of Manitoba in support of the National Centre for Livestock and the Environment. Minister of Agriculture, Food and Rural Initiatives, Honourable Roseann Wowchuk, brought greetings from the Province.

Alumni Affairs and Alumni Association Inc.

- Alumni events are scheduled for Calgary on March 29, Edmonton on March 30, Vancouver on April 26, and Victoria on April 27. Several deans plan to participate, including Arts, Medicine, Social Work, Engineering, Science and Law as well as the warden of St. John's College.

Public Affairs

- The Faculty of Medicine has partnered with CBC Information Radio on the weekly column by Mehdi Sefidgar entitled "Anatomy of a Med Student."

Government Relations Office

- GRO arranged for three tours in January and February. The Manitoba PC Caucus visited the Richardson Centre for Functional Foods and Nutraceuticals (RCFFN) on January 10th; in conjunction with the Faculty of Agricultural and Food Sciences. The NDP Caucus toured the National Centre for Livestock and the Environment on January 26th. Jon Gerrard, leader of the Manitoba Liberal Party, toured the RCFFN on February 20. An introduction to Smartpark for City Councillors was also held on February 23.

Development and Advancement Services

- The fundraising result from April 1, 2005 to February 28, 2006 is \$18,043,293. Since January 1, 2006, student fundraisers have raised \$168,419 through the Annual Giving Call Centre and on February 26, Annual Giving surpassed the \$1 million mark. In addition, Planned Giving has raised \$6,018,509 toward its 3-year goal of \$15,744,000.

PART B - Notable Events (External)

Emőke J. E. Szathmáry
Tuesday, January 17, - Wednesday, March 15, 2006

Tuesday, January 17, 2006

- Present remarks and host reception at the University Club for recipients of promotion and/or tenure in 2005, and their guests.

Wednesday, January 18, 2006

- Make a presentation on the University's financial situation to the Provincial NDP Caucus. Participating in the meeting were Dr. Robert Kerr, Dr. Joanne Keselman, Mrs. Deborah McCallum and Mr. John Alho, Director, Government Relations.

Friday, January 20, 2006

- Present remarks at the announcement of a gift to the Faculty of Pharmacy by Mr. Kris Thorkelson, University of Manitoba alumnus, and Chairman and CEO, CanadaDrugs.Com.

Saturday, January 21, 2006

- Bring greetings at St. Paul's College Alumni and Friends Dinner.

Thursday, January 26, 2006

- Host luncheon meeting for Honourable Rosann Wowchuk, Minister of Agriculture, Food and Rural Initiatives and her assistant, Ms. Andrea Coulling. The Director of Government relations, Mr. John Alho, was also present.

Friday, January 27, 2006

- Attend St. John's College's "Burns' Night."

Monday, January 30, 2006

- Meet with Mr. Paul Vogt, Clerk of the Executive Council, along with Mr. John Alho, Director of Government Relations.

Wednesday, February 1, 2006

- Attend the Chinese New Year's Celebration hosted by the Chinese Community and Cultural Centre.

Thursday, February 2, 2006

- Provide interview, as guest of the Smartpark Interactive Breakfast Speaker Series to Geoff Kirbyson of the *Winnipeg Free Press*.

Wednesday, February 8, 2006

- Meet with Fr. Gerard Van Wallenghem, SJ, Former Rector, St. Joseph's College in Darjeeling, India. Visit with Jesuit alumni of the University of Manitoba who teach in St. Joseph's College division, and run St. Joseph's College School at North Point, Darjeeling. Dr. Digvir Jayas, Associate Vice-President (Research) accompanied me, and also represented the University on the India trip.

Friday, February 10, 2006

- Attend presentation in Bangalore, India by Dr. James Blanchard, Community Health Sciences, and colleagues on the Karnataka Health Promotion Trust.
- Make site visit to Pragathi, India.
- Attend presentation at Navaspoorthi, India on the India-Canada HIV/Aids Project.
- Meet with members of the Bagalkot Demonstration Project and Sex Work Demonstration Project Teams.
- Participate in official signing of a Memorandum of Understanding between the University of Agricultural Sciences and the University of Manitoba, in Bangalore, India.

Sunday, February 12, 2006 - Join Premier Gary Doer's Mission to India

- Participate with the Manitoba delegation in meeting with the Honourable Chief Minister of Haryana, Shri Bhupinder Singh Hooda, in Chandigarh, India.
- Participate in official signing of a Memorandum of Understanding between the Guru Jambheshwar University, Hisar, Haryana and the University of Manitoba.
- Attend dinner as a member of the Manitoba delegation, with Honorable Chief Minister of Punjab, Captain Shri Amarinder Singh, in Chandigahr.

Monday, February 13, 2006

- Attend Reception/Luncheon held for the Manitoba Trade Mission by the Confederation of Indian Industry, New Delhi.
- Participate in official signing of a Memorandum of Understanding between the G. B. Pant University of Agriculture and Technology and the University of Manitoba, in New Delhi, India.
- Accompany Premier Doer to his meeting with Dr. Satish Jha, Chair of Economic Advisory Council to the Prime Minister of India, and other members of this Council in New Delhi.

Tuesday, February 14, 2006

- Attend breakfast meeting with Premier Gary Doer and Manitoba Business Delegates, New Delhi.
- Present remarks at the University of Manitoba and Gates Foundation Announcement.
- Participate in official signing of a Memorandum of Understanding between the University of Manitoba and Mahalingam College of Engineering and Technology, New Delhi.
- Attend luncheon hosted by the Confederation of Indian Industry.
- Witness, along with Mr. Jeff Zebudsky, President, Red River College, the Memorandum of Agreement signed between the Province of Manitoba and the New Delhi School Division.
- Attend reception sponsored by Joregenson Group of Companies.
- Participate in the official signing of a Memorandum of Understanding between the Ritnand Balved International Education Foundation (Amity University) and the University of Manitoba, in Noida, India.

Wednesday, February 15, 2006

- Attend Reception and dinner hosted by Scotiabank in Mumbai, India.

Thursday, February 16, 2006

- Attend luncheon hosted by the Indian Merchant's Chamber and the Canadian Consulate, Mumbai, India.

- Attend Bollywood Reception, hosted by Manitoba Film and Sound, Mumbai, India.

Friday, February 17, 2006

- Participate in official signing of a Memorandum of Understanding between the University of Manitoba and Alkem Laboratories Limited, Mumbai, India.
- Attend presentation on Alkem Laboratories Limited.
- Attend presentation by Dr. Digvir Jayas, Associate Vice-President (Research), on Manitoba's Nutraceutical Research & Development capabilities.
- Attend luncheon hosted by Alkem Laboratories Limited.

Thursday, February 23, 2006

- Attend Council of the Federation Summit "Competing for Tomorrow" reception in Ottawa.

Friday, February 24, 2006

- Participate in Council of the Federation summit "Competing for Tomorrow" as part of the Manitoba delegation.

Tuesday, February 28, 2006

- Participate in telephone meeting of Council of Presidents of Universities in Manitoba (COPUM).
- Meet with Honorable Diane McGifford, Minister of Advanced Education and Honorable Greg Selinger, Minister of Finance, along with Mr. John Alho, Associate Vice-President (External).

Wednesday, March 1, 2006

- Participate by telephone in meeting of the Prime Minister's Advisory Council on Science and Technology held in Ottawa.

Thursday, March 2, 2006

- Present remarks at the National Centre for Livestock and the Environment gift announcement by Hutterite colonies at the Glenlea Research Station.

- Deliver thanks to Professor Nancy Turner, the Robin D. Connor Lecturer in the History and Philosophy of Science.

Friday, March 3, 2006

- Provide interview to *Winnipeg Sun* columnist, Katie Chalmers-Brooks.
- Attend dinner in honour of Professor Nancy Turner, the Robin D. Connor Lecturer.

Monday, March 6, 2006

- Meet with Honorable Diane McGifford, Minister of Advanced Education and Board Chairs and Presidents of Universities and Colleges of Manitoba, along with Board of Governors Chair, Mr. Wayne Anderson.

Wednesday, March 8, 2006

- Preside at Special Convocation, Anchorage, Alaska, to confer Doctor of Science (honoris causa) on Dr. William J. Mills.

Monday, March 13, 2006

- Attend breakfast meeting with members of the Canadian Unity Council (CUC), Winnipeg and the CUC Board Chair, the Honorable Bob Rae.
- Attend meeting with Dr. Joanne Keselman and representatives of Brandon University and the University of Winnipeg regarding the Research Networking Needs Assessment Project, chaired by Deputy Minister John Clarkson.
- Host table at luncheon of Canadian Club of Winnipeg to hear address delivered by the Honorable Bob Rae.
- Meet with Deputy Minister Dwight Botting and Acting Executive Director of COPSE, Curtis Nordman, along with Vice-President (Administration), Debbie McCallum and Associate Vice-President (External), John Alho.
- Co-host International Women's Day dinner with Ms. Janet Sealey, President, AESES, and introduce speaker, Dr. Sheri Blake.

Tuesday, March 14, 2006

- Chair teleconference meeting of the Distinguished Professor Committee.
- Attend reception and present remarks at Government House, honouring research excellence at the University of Manitoba, hosted by the Lieutenant Governor of Manitoba, the Honorable John Harvard and her Honour, Lenore Berscheid.

March 22, 2006

Report of the Senate Executive Committee

Preamble

The Executive Committee of Senate held its regular monthly meeting on the above date.

Observations

1. Speaker for the Executive Committee of Senate

Professor Kevin Coombs will be the Speaker for the Executive Committee for the April meeting of Senate.

2. Comments of the Executive Committee of Senate

Other comments of the Executive Committee accompany the report on which they are made.

Respectfully submitted,

Dr. Emőke Szathmáry, Chair
Senate Executive Committee
Terms of Reference: *Senate Handbook* (Revised 1992), Section 9.

/nis

**Report of the Senate Committee on Rules and Procedures:
Regarding the Faculty of Nursing**

Preamble

1. Terms of Reference of the Committee on Rules and Procedures are found on page 10.22 of the *Senate Handbook* (Revised 1992).
2. The Committee on Rules and Procedures has as one of its responsibilities the review of proposed amendments to Faculty/School Council bylaws. The Faculty of Nursing requested changes be made to their Professional Unsuitability Bylaw.

Observations

1. The Faculty of Nursing proposed several changes to their Professional Unsuitability Bylaw. The Committee on Rules and Procedures reviewed all the changes submitted by the Faculty of Nursing. The revised Bylaw is appended to this report.
2. The Committee observed that the revisions to the Professional Unsuitability Bylaw made for a strong and well thought out document.
3. The Committee suggested that other professional programs at the University that do not have Professional Unsuitability Bylaws consider developing their own versions as one way to strengthen the link between the students, the professional programs and the professions with which they are affiliated.

RECOMMENDATION

"THAT Senate approve the Professional Unsuitability Bylaw of the Faculty of Nursing as amended."

Respectfully submitted,

Dean H. Sector, Chair
Senate Committee on Rules and Procedures

Comments of the Senate Executive Committee:
The Senate Executive Committee endorses
the report to Senate.

**FACULTY OF NURSING
PROFESSIONAL UNSUITABILITY BY-LAW**

1.00 Jurisdiction

1.01 General

The Faculty of Nursing may require a student to withdraw from the Faculty pursuant to the procedures set out in this By-Law when the student has been found unsuited, on consideration of competence or professional fitness, for the practice of nursing. A student may be required to withdraw at any time throughout the academic year or following the results of examinations at the end of any academic term. This right to require withdrawal prevails notwithstanding any other provision in the Faculty's Rules or Regulations.

1.02 Grounds for required withdrawal

A student may be required to withdraw from the Faculty when the student has:

- been guilty of such conduct which, if participated in by a practising registered nurse would result in suspension or expulsion of the practitioner from the practice of nursing or such other disciplinary actions available against a practitioner by the governing body of the profession;
- practised incompetently in any clinical setting; due to ongoing impairment of functioning
- jeopardized professional judgement through self-interest;
- demonstrated behaviour with respect to other students, colleagues, faculty or the public which is exploitive, irresponsible or destructive.
- **acquired a criminal conviction which according to the established Faculty processes was determined to be of such a nature as to bring disrepute to the profession, or by which in the opinion of the Faculty, the student demonstrated poor judgment, lack of integrity or (other) unsuitability for the profession.**
- **in accordance with provisions of the *Manitoba Human Rights Code* and the Faculty's duty to reasonably accommodate the special needs of its students, any health condition, the occurrence of which impairs essential performance required for the health profession.**
- **been under the influence of alcohol or drugs while participating in client care, any other professional activity, or any activity related to the practice of the health profession.**
- **demonstrated unethical behaviour as specified by the Canadian Nurses' Association *Code of Ethics*.**
- The Canadian Nurses' Association *Code of Ethics*, as the ethical basis for nursing in Canada, will be considered in every situation in which an inquiry is being held into the conduct of a student in the practice of nursing.

1.03 Conflict of Jurisdiction

If a question arises as to whether a matter falls within the academic regulations of the Faculty on this By-Law, or as to whether a matter is within the jurisdiction of the Discipline By-Law of the University or this By-Law, as the case may be, the question shall be referred to the President of the University for final decision.

2.00 Professional Unsuitability Review Committee (PUC)

- 2.01 There shall be established within the Faculty a standing committee known as the Professional Unsuitability Review Committee (PUC) to hear and to determine matters of **competence and/or professional fitness for the practice of nursing on behalf of the Faculty Council**. Appeals from the PUC therefrom shall be heard by the Senate Committee on Appeals.

Membership in the PUC Committee shall be as follows:

- Chair (non-voting, except in the case of tie): a tenured faculty member to be appointed by the Dean, Faculty of Nursing.

Committee Members:

- two full time faculty members, at least one of whom shall be tenured/tenure track, elected by the Council of the Faculty of Nursing
- two students **from the Faculty of Nursing**; one third-year or four-year undergraduate, and one graduate **student**, appointed by the **respective** student organizations
- two representatives of the Nursing Profession **to be appointed by the Manitoba Association of Registered Nurses (MARN); one nurse member of the MARN Discipline Committee, preferably the Chair.** the **College of Registered Nurses of Manitoba (CRNM)**, preferably with experience in dealing with CRNM disciplinary matters.

3.00 Procedure

- 3.01 The Dean (or appropriate **designate official**), shall refer matters which in her/his opinion involves conduct or circumstances described in Article 1.01 and 1.02 herein, to the Review PUC Professional Unsuitability Committee in a written report, setting out the name of the student involved, the alleged facts and the **alleged** ground(s) allegedly warranting withdrawal pursuant to Article 1.01 and 1.02.
- 3.02 The PUC Review Professional Unsuitability Committee shall: send
- i) **send a Notice of Hearing to the named student pursuant to Article 4.01 by registered mail to the last known address of the student as found on the Faculty's records. At the student's request additional information may be sent by regular mail, email or facsimile; as set out under Article 5.02; shall**

- ii) consider whether just cause exists to suspend the student while the matter is being determined and if so, to issue an interim suspension to the student;
- iii) at all times act expeditiously to complete the hearing;
- iv) determine whether any of the grounds requiring withdrawal under Article 1.01 and 1.02 exist at hearing of the matter pursuant to this By-Law; and
- v) make grant a disposition in accordance with Article 7.02 6.00 herein.

3.03 Once a reference has been made to the PUC Review Professional Unsuitability Committee the proceedings may continue notwithstanding that the student has subsequently voluntarily withdrawn from the Faculty, or has refused to participate in the proceedings.

4.00 Notice to Students

4.01 The Chair of the PUC Review Professional Unsuitability Committee shall, as soon as possible after receipt of the referral ence, provide the student concerned with a copy thereof and, at the same time, inform the student in writing of the grounds for withdrawal referral to the PUC Professional Unsuitability Committee, as well as the membership of the PUC Review Professional Unsuitability Committee and the date, time, and place for the hearing consideration by the PUC Review Professional Unsuitability Committee of the matters set out in the referral ence.

The student may provide a written response to the grounds. Such written response should be provided to the PUC within one week of the hearing date.

4.02 The Notice from the Chair shall include a statement that if the allegations contained in the reference are established to the satisfaction of the PUC Review Professional Unsuitability Committee then the student may be required to withdraw from the Faculty.

5.00 Hearing Procedures

5.01 The student may appear in person and **may choose to be represented by a Student Advocate, legal or other counsel.** someone other than legal counsel. Legal counsel may be present as an observer. and participate in the hearing.

5.02 The Faculty and student **may call witnesses as needed. Written notice to each party of witnesses to be called by the other party shall be given prior to the hearing.**

5.02 3 The hearing shall be closed to all persons except the members of the PUC, Review Professional Unsuitability Committee, Faculty Representative(s), the student, the designated representative of the student, **and any witnesses.** legal counsel, if any, and the Student Advocate.

5.02 4 The student or her/his representative shall have the right to hear and to cross examine witnesses, to have access to all documents submitted to the PUC Review Professional Unsuitability Committee for consideration, to call witnesses and to submit other

evidence.

- 5.07 5 The student shall not be required to give evidence but if the student elects to do so, then the student may be **questioned by members of the PUC** cross-examined.
- 5.04 6 A quorum for the PUC Review Professional Unsuitability Committee shall be **75% 4 members and the chair** of the membership as referred to in section 2.01 above. thereof, consisting of at least 1 student, 1 external and two faculty members, in addition to the Chair.
- 5.06 7 A simple majority of the members hearing the matter is required for any finding or for the determination of the appropriate disposition of the matter.
- 5.05 8 The Chair of the PUC Review Professional Unsuitability Committee shall vote only to break a tie.
- 5.08 9 Members of the PUC Review Professional Unsuitability Committee shall be bound by confidentiality in respect of information received in Committee. **Information will only be disclosed as is reasonably necessary to implement the investigation, the resolution or the terms of any disposition imposed, or as required by law.**
- 5.09 10a) A faculty member shall not be disqualified from sitting as a member of the PUC Review Professional Unsuitability Committee hearing the matter by reason only that such faculty member has had previous contact with the student or has prior personal knowledge of the matter.
- b) the student whose case is to be dealt with shall be permitted to challenge and thereby cause to be disqualified not more than two members of the PUC Review Professional Unsuitability Committee. In such a case, the **Chair** Faculty may replace the disqualified members **pursuant to section 2.01.**
- 5.110 The results of the hearing and the **reasons grounds** therefore shall be conveyed in writing to the student, the Student Advocate, and/or the **designated representative of the student, where applicable appropriate, with copies to the Dean of the Faculty.** Dean of the Faculty, the student, the designated representative of the student, and to the Student Advocate when requested by the Student Advocate.

6.00 Appeals

- 6.01 If the student wishes to appeal a dispositiondecision of the PUC Review Professional Unsuitability Committee, such appeal may be made to the Senate Appeals Committee in accordance with the procedures of that body.
- 6.02 I n the event of an appeal, the implementation of any decision of the PUC Review Professional Unsuitability Committee mayshall be suspended until the matter has been disposed of by the Senate Appeals Committeebody hearing the appeal.

6.03 Notwithstanding the above, if the President of the University is satisfied that it is in the best interests of the University, the President may at any time make an order, subject to final disposition of the appropriate review authority, suspending the student from participating in any program of the University.

7.00 Findings of the Matter

7.01 The body hearing the matter shall, after hearing all the evidence, meet in closed session with its members only, to consider its findings and the disposition to be made of the matter.

7.02 The body hearing the matter may individually or in combination:

- determine that no action should be taken in respect of the matter;
- reprimand the student;
- require the student to withdraw from the Faculty for a specified period of time;
- require the student to withdraw from the Faculty indefinitely;
- require the student to withdraw from the Faculty with no right to apply for re-admission to the Faculty;
- attach conditions which must be fulfilled before any application for re-admission to the Faculty can be considered;
- attach conditions prescribing future conduct by the student.

6.00 Disposition of the Matter

6.01 The PUC shall, after hearing all the evidence, meet in closed session with its members only, to:

- i) consider the evidence;**
- ii) make its findings using a balance of probabilities standard;**
- iii) if the allegations are proven, determine the appropriate disposition of the matter;**
- iv) if the allegations are not proven, dismiss the matter and/or make any other recommendation the PUC deems appropriate.**

6.02 The PUC may make any disposition it deems appropriate in the circumstances. Without limiting the generality of the foregoing the following options, alone or in combination, are available:

- i) determine that no further action be taken;**
- ii) allow the student to remain in the program and attach conditions prescribing future conduct by the student. Such conditions to remain in effect for any period of time the PUC deems appropriate;**
- iii) reprimand the student in writing;**
- iv) suspend the student from the Faculty for a specified period of time;**
- v) require the student to withdraw from the Faculty indefinitely;**
- vi) attach conditions which must be fulfilled before any application for re-admission to the Faculty can be considered;**

- vii) expel the student from the Faculty with no right to apply for re-admission to the Faculty;

7.00 Appeals

- 7.01 If the student wishes to appeal a disposition of the PUC, such appeal may be made to the Senate Appeals Committee in accordance with the procedures of that body.
- 7.02 In the event of an appeal, the implementation of any decision of the PUC may be suspended until the matter has been disposed of by the Senate Appeals Committee.
- 7.03 Notwithstanding the above, if the President of the University is satisfied that it is in the best interests of the University, the President may at any time make an order, subject to final disposition of the appropriate review authority, suspending the student from participating in any program of the University.

8.00 Records

**A record of any finding of professional unsuitability and/or disposition related thereto shall be kept on the student's academic file within the Faculty.
All information relating to the hearing before the PUC shall be kept in the Dean's office.**

98.00 Amendments

- 98.01 This By-Law may be amended by Senate alone, or by Senate after approval of such amendment(s) by Faculty Council.

Revised September 2005

Approved by Faculty Council October 26, 2005

**Report of the Senate Committee on Rules and Procedures:
Regarding the Faculty of Pharmacy**

Preamble

1. The Committee on Rules and Procedures has as one of its responsibilities the review and editing of individual Faculty/School Council Bylaws. The Faculty of Pharmacy submitted their Faculty Council Bylaw to the Committee on Rules and Procedures for review. This Bylaw was circulated to members of the Committee on Rules and Procedures.
2. Terms of Reference of the Committee on Rules and Procedures are found in section 8.33 of the *Senate Handbook* (Revised 1992).

Observation

1. The Faculty of Pharmacy proposed some changes to their Bylaw, mainly the addition of an Executive Committee. The Committee on Rules and Procedures reviewed all the changes submitted by the Faculty of Pharmacy. The revised Bylaw is appended to this report.
2. The Committee observed that the revisions to the Faculty of Pharmacy Council Bylaw did not change it being in agreement with the Faculty and School Council General Bylaw (Policy 402).

Recommendation

"THAT Senate approve the Faculty of Pharmacy Faculty Council Bylaw."

Respectfully submitted,

Dean. H. Sector, Chair
Senate Committee on Rules and Procedures

*Comments of the Senate on the Committee on Rules and Procedures
The Senate has approved the Committee's recommendation
the report to Senate.*



By-law

approved June 1, 2005

This by-law is supplementary to the Faculty and School Council General By-Law, Policy: 402 (see http://www.umanitoba.ca/admin/governance/policies/section_400/402.shtml).

I Membership of Faculty Council

In addition to those persons provided for in the Faculty and School Council General By-Law, the Faculty Council of Pharmacy (the "Council") shall be composed of:

- i. The President
- ii. The Vice-President (Academic) and Provost or designate.
- iii. The Dean of the Faculty.
- iv. The Dean of Science or designate.
- v. The Dean of Medicine or designate.
- vi. Associate Deans of the Faculty.
- vii. Faculty members who hold academic rank: Full-time Professors, Associate Professors, Assistant Professors, Lecturers, Instructors I and II and Senior Instructors.
- viii. The Director of Admissions or designate.
- ix. The Registrar of the Manitoba Pharmaceutical Association.
- x. The President of the Manitoba Pharmaceutical Association.
- xi. A representative of the Manitoba Society of Pharmacists.
- xii. A representative of the Manitoba Chapter of the Canadian Society of Hospital Pharmacists.
- xiii. A member-at-large of the Manitoba Pharmaceutical Association.
- xiv. Three undergraduate students of the Faculty of Pharmacy, two of whom will be the Student Co-Sticks; one graduate student conducting the major part of his/her research in the Faculty.
- xv. Deans *Emeriti* and Professors *Emeriti*.
- xvi. One member of the full-time support staff.

II. Selection of Members

- i. The Manitoba Society of Pharmacists shall appoint their representative to the Faculty Council, once every three years.
- ii. The Manitoba Chapter of the Canadian Society of Hospital Pharmacists shall appoint their representative to the Faculty Council, once every three years.
- iii. Selection of the undergraduate student representatives shall be made annually by the Pharmacy Students' Association.

- iv. The graduate student representative shall be elected by the graduate students conducting the major part of their research in the Faculty of Pharmacy, at an annual meeting convened by the Dean of his/her designate.
- v. The Manitoba Pharmaceutical Association shall appoint their member-at-large to the Faculty Council, once every three years.
- vi. The full-time support staff member shall be elected by and from the full-time support staff, once every three years.

III. Meetings of the Faculty Council

- i. The Dean or designate shall be the presiding officer at all meetings of the Faculty Council, subject to the right of the President to take the chair at such meetings.
- ii. The Faculty Council shall meet at least once yearly.
- iii. Meetings shall be called at the discretion of the Dean of the Faculty or at the written request of any 10 members of the Faculty Council.
- iv. At least 5 day's written notice of any regular Faculty Council meeting shall be given and at least 24 hours' notice for any special Faculty Council meeting.
- v. Faculty Council meetings shall be open, subject to the Council moving into closed session by the vote of a simple majority of those in attendance and voting.
- vi. The quorum necessary for the transaction of business shall be one third of Faculty Council's members.
- vii. All discussions by the Council shall be confidential unless otherwise decided by a majority of members present and voting at a duly constituted meeting of the Council.

IV. Election of Members to Senate

Full time academic and support staff members in the Faculty of Pharmacy are eligible for election to Senate from the Faculty Council of Pharmacy and shall be eligible to participate in the election of such representatives. No person is eligible to be elected to Senate who is not a full-time member of the Faculty of Pharmacy.

V. Rules

a) Standing Rules:

The Faculty Council may enact or amend standing rules and procedures for conduct of the affairs of the Faculty by a majority vote of those members of the Faculty Council present and voting at the time the vote is called provided that five days notice of the proposed standing rule or amendment has been given to all members of the Faculty Council prior to the meeting at which such enactment or amendment is to be made.

b) Rules of Order:

Except where otherwise provided in the standing rules, Robert's Rules of Order shall govern the conduct of the Faculty Council meetings.

VI. Amendments

Council may amend this Bylaw at any time after approval of the amendment by two-thirds of the members of Council present and voting.

VII. Pharmacy Faculty Executive Council

a) Membership of Executive Council

There shall be an executive (hereinafter referred to as the "Executive Council"), composed of:

- i. The President or designate.
- ii. The Vice-President (Academic) and Provost or designate.
- iii. The Dean of the Faculty.
- iv. Associate Deans of the Faculty.
- v. Faculty members who hold academic rank: Full-time Professors, Associate Professors, Assistant Professors, Lecturers, Instructors I and II and Senior Instructors.
- vi. The support staff representative to Faculty Council.
- vii. Pharmacy Student Co-Sticks.
- viii. Graduate Student representative to the Faculty Council.
- ix. Registrar of the Manitoba Pharmaceutical Association.

c) Meetings of Executive Council

- i. The Dean or designate shall be the presiding officer at all meetings of the Executive Council.
- ii. The Executive Council shall meet at least biannually.
- iii. Meetings shall be called at the discretion of the Dean of the Faculty or at the request of 5 members of the Executive Council.
- iv. At least five days' written notice of any regular Executive Council meeting shall be given or at least 24 hours' notice for any special Executive Council meeting.
- v. The quorum necessary for the transaction of business shall be one-third of Executive Council's members.
- vi. The Executive Council may, on specific issues, conduct votes by email, given that three days' notice by email is provided to members.

d) Standing Committees

- i. There shall be standing committees as required by the Senate and as deemed necessary by the Faculty Executive Council. With the exception of the Awards Committee, who will report to Council for information, the decisions of Standing Committee's will require the approval of Executive Council, or Faculty Council.

- ii. Students shall be represented on such committees, in such numbers and with such rights of participation as provided for in the terms of reference and composition of the committees.

VIII. Powers of the Executive Council

- a) All powers granted to the Faculty Council under the Faculty and School General By-Law shall be exercised by the Executive Council, except the Faculty Council shall retain the power to elect members to and remove members from Senate.
- b) The Executive Council, subject to the general charge of all matters of an academic character vested in the Senate shall, have the power:
 - i. To provide for the regulation and conduct of its meetings and proceedings.
 - ii. To appoint such committees as it may deem necessary and to confer on them the power and authority to act for it with respect to such matters as it may deem expedient.
 - iii. To make and administer regulations with respect to the attendance, conduct and progress of students who are registered in the Faculty.
 - iv. To administer the rules and regulations of the Senate as they affect the students registered in the Faculty.
 - v. To consider appeals by students from a decision of a member of the academic staff or the Faculty.
 - vi. To establish departmental councils and, following guidelines approved by Senate, prescribe how they shall be constituted.
- c) The Executive Council shall have the power to make such recommendations as it may deem proper for promoting pharmacy education, the advance of pharmaceutical sciences or the interest of the University to the appropriate persons or bodies and without restricting the generality of the foregoing may make recommendations concerning:
 - i. The conferring of the title Professor Emeritus/Emerita and Dean Emeritus/Emerita;
 - ii. Athletic, social or other extra-curricular activities of students;
 - iii. The establishment of, the abolition of, or any changes in divisions, departments, chairs, lectureships in the Faculty;
 - iv. The establishment of or the abolition of or any changes in exhibitions, bursaries, scholarships, and prizes to be awarded to students registered in the Faculty;
 - v. The conditions of entrance to the Faculty or School and the standing to be allowed students entering the Faculty or School and all matters relating thereto;
 - vi. The regulations, methods, and limits of instruction in the Faculty;
 - vii. The academic standing of all undergraduates in the Faculty;
 - viii. The conditions on which candidates shall be received for examination and the conduct and results of examinations in the Faculty;

- ix. The degrees, diplomas and certificates of proficiency to be granted by the University pertaining to courses of study in the Faculty, and the persons to whom they shall be granted and the course of study required for any such degree, diploma and certificate of proficiency;
 - x. The discipline of students registered in the Faculty;
 - xi. The acquisition and use of facilities within the Faculty;
 - xii. The requirements for lecture rooms and other facilities;
 - xiii. The dates for the beginning and ending of lectures in the Faculty.
- d) In addition to the powers set out above, the Executive Council shall have the power to appoint representatives to such other bodies concerned with pharmacy education, the advancement of pharmaceutical sciences or the interest of the University, as it deems advisable.

IX. Standing Rules

The Executive Council may enact or amend standing rules and procedures for conduct of the affairs of the Faculty by a majority vote of those members of the Executive Council presenting and voting at the time of the vote calling provided that five days' notice of the proposed standing rules has been given to all members of the Executive Council prior to the meeting at which such enactment or amending is to be made.

X. General Provision

Unless otherwise provided for in the resolution referring the matter to the Faculty Council, such matters shall be referred to and dealt with by the Executive Council.

Report of the Senate Committee on Admissions concerning a proposal from the Faculty of Pharmacy to modify its admission requirement concerning residency in Manitoba (2006.02.16)

Preamble

Currently, the Faculty of Pharmacy's admission policy concerning an applicant's residency in Manitoba is outlined in its Applicant Information Bulletin, under Citizenship and Residence (Section B, page 2):

"In order to exercise its discretion with respect to assigning priorities based on the residence and the citizenship of applicants, the Selection Committee recognizes the following categories (in order of priority):

1. Undergraduates of the universities of Manitoba who are Canadian citizens or Permanent Residents and Manitobans who are Canadian citizens who have completed their high school studies in Manitoba and have taken their pre-Pharmacy education outside of Manitoba.

Note: Canadian Armed Forces personnel and their direct dependents will be considered as residents of Manitoba, but must meet all normal academic requirements for entry, and take part in the competition with regular applicants for entry.

2. Non-Manitoba Canadian citizens and non-Manitoba Permanent Residents who have taken their pre-Pharmacy education outside of Manitoba."

Observation

Based on recent experience, the Faculty of Pharmacy sees a need to clarify the status of new residents of Manitoba as it relates to its first priority admissions group (leaving the second priority group unchanged).

Recommendation

The Senate Committee on Admissions recommends to Senate that, effective for the 2006-07 regular academic session, eligible Pharmacy applicants, under its citizenship and residence requirements, will include the following (in the first priority admissions group):

1. (a) Undergraduates of the universities of Manitoba who are Canadian citizens or Permanent Residents; and
(b) Manitobans who are Canadian citizens or Permanent Residents and who:
 - (i) have completed their high school studies in Manitoba and have taken their pre-Pharmacy education outside of Manitoba; or
 - (ii) have completed their high school studies elsewhere and have taken their pre-Pharmacy education elsewhere and can demonstrate current residency in the province of Manitoba of at least one year (12 consecutive months) continuous up to the time of application.

Committee of the Senate Faculty of Pharmacy
The Senate Executive Committee endorses
the report to Senate.

Respectfully submitted,
Dr. D.R. Morphy, Chair,
Senate Committee on Admissions

Terms of reference: Senate Handbook (revised 1992), pp.10.6-10.8

Report of the Senate Committee on Admissions concerning a proposal from the Faculty of Law to modify its admission requirements concerning LSAT scores and transfer applications, effective for the 2007-08 fall/winter session (2006.02.16)

Preamble

The Law Faculty Council reviewed its admission requirements and agreed to request three changes to these requirements. The proposed changes would (1) allow Law to use the highest LSAT score presented by an applicant who has written multiple tests; (2) limit the use of LSAT scores to those on tests taken within the most recent five years; and (3) allow Law to consider applications from students wishing to transfer from Law programs outside of Canada.

Observations

1. The highest LSAT score obtained to be used in the calculation of the admission 'index score'

The Faculty of Law's current policy is to average the last three LSAT scores of an applicant who has written multiple tests to arrive at an Operative LSAT for use in the determination of an index score, 50 percent of which consists of the Operative LSAT and 50 percent consists of the CGPA. The only exception to this current policy occurs if a student attains a score eight points or greater than the highest previous score; in such a case this highest score is taken at face value. This approach is followed by Alberta, Calgary, Saskatchewan, Toronto, and Western, although some of these entertain submissions from applicants asking for a high recent score (which is not eight points or greater than the highest previous score) to be taken at face value. Meanwhile, UBC, Dalhousie, UNB, Queen's, UVIC, and Osgoode use the highest LSAT score of multiple tests.

The Faculty has recommended a change in the policy so that the highest LSAT score be used — without averaging — because only rarely does an applicant achieve an LSAT score eight points higher than one achieved earlier because the Faculty now accepts that even a slight increase in the LSAT score received should be rewarded. The Law School Admissions Council (LSAC) advises that LSAT scores be treated as reflecting a score within a band of 3 points higher and 3 points lower. Using the highest score would in the majority of cases fall within this score band.

2. The "shelf-life" of Law School Admissions Test results to be five years

The Faculty of Law currently accepts LSAT results obtained any time after June 1991 for use in the admission index score — 1991 being the year in which the current format of the LSAT was introduced. Only Dalhousie University has the same policy concerning the "shelf-life" of LSAT scores.

Most of the Canadian Law Schools (i.e., nine schools) have a shelf-life restriction on LSAT scores ranging from four to six years. Six of those schools have a shelf-life restriction of five years. LSAC recommends using scores achieved within five calendar years preceding the year of admission. The Faculty recommends changing the policy to the LSAC recommendation of five years for use in admission decisions affecting registrations in the 2007-08 fall/winter academic session.

3. Applications from students completing first year law outside of Canada to be considered

Currently, the Faculty of Law accepts transfer applications only from students completing first year law at another Canadian common law school. Each year there are a number of requests from students studying a common law program in the United States or abroad to transfer to the University of Manitoba

Comments of the Senate Executive Committee:
The Senate Executive Committee endorses the report to Senate.

for second year. Other Canadian Law Schools, including Calgary, Dalhousie, Queen's, Toronto, Victoria, and York, entertain applications for transfer from international students with the stipulation that the courses missing from the first year program must be completed.

The Faculty agrees that it would be to its benefit to entertain applications for transfer from students completing first year law outside of Canada; this change in policy is to be effective for the 2007-08 fall/winter academic session. These applications would continue to be evaluated on an individual basis by the Student Affairs Committee at the Faculty against the current requirements for transfer applicants as outlined in Law's Applicant Information Bulletin.

Recommendations

The Senate Committee on Admissions recommends to Senate the following changes to the admission criteria in the Faculty of Law:

1. The highest eligible (see #2 below) LSAT score obtained will be used in the calculation of the index scores used in admission selection.
2. Eligible LSAT scores are those on tests taken within the most recent five years.
3. The Faculty of Law will now consider applications from students wishing to transfer from Law programs outside of Canada.

Respectfully submitted,
Dr. D.R. Morphy, Chair,
Senate Committee on Admissions

Terms of reference: Senate Handbook (revised 1992), pp. 10.6-10.8

Report of the Senate Committee on Admissions concerning a proposal from the Faculty of Engineering to modify its admission requirements for applicants applying after completing first year outside the Faculty (2006.02.16)

PREAMBLE

The Faculty of Engineering proposes to modify its first year program and the admission criteria to its second year. The proposed changes do not affect the admission requirements for high school students admitted directly to Engineering. Students admitted to Engineering from University 1 or students transferring into Engineering from other institutions will be required to meet the proposed admission criteria in the second year of an Engineering program.

BACKGROUND

The Ad Hoc Curriculum Committee have met over the past year with the specific mandate to review the Preliminary Year Program. The initial undertaking was to do the following:

- review the structure of the Preliminary Year Program,
- to plan for the integration of design throughout the programs,
- to consider the introduction of engineering biology in all programs, and
- to consider the introduction of a new math course proposed by the Department of Mathematics

All this was done in consideration of the four applicant categories which currently exist in the selection process to the undergraduate engineering program at the University of Manitoba:

- Direct Entry Applicant Category
- University 1 Applicant Category
- Canadian Aboriginal Applicant Category
- Transfer Applicant Category

Some observations include:

- (a) A reduction in credit hours and courses in the Preliminary Program to lighten the student work load.
- (b) The introduction of a basic sciences elective that would allow a student in any program to take biology or any other basic sciences electives and thus obtain more breadth or more depth.
- (c) A repackaging of math courses to remove a number of serious problems with the current math sequencing and content.
- (d) The introduction of a CAD course in upper level years in all programs to allow for discipline specific instruction.

Comments of the Senate Committee on the Report
The Senate Committee on the Report addressed
the report to Senate.

Table 1 shows the results of these deliberations: The net effect of the suggested changes reduced the number of courses by one (1) and reduced the credit hours from 41 to 36.

TABLE 1: A MODIFIED PRELIMINARY YEAR PROGRAM

| Current and Proposed Preliminary Engineering Programs | | | |
|---|------------|--|------------|
| CURRENT | Cr. Hr. | PROPOSED | Cr. Hr. |
| Complete minimum of 8 to enter a Dept. | | Complete minimum of 8 to enter a Dept. | |
| 002.130 University 1 Chemistry | 3 | CHEM 1300 University 1 Chemistry | 3 |
| 004.131 Literary Topics 1 | 3 | ENGL 1310 Literary Topics 1 | 3 |
| 015.129 Critical Thinking | 3 | PHIL 1290 Critical Thinking | 3 |
| 016.105 Physics: Mechanics | 3 | PHYS 1050 Physics 1: Mechanics | 3 |
| 016.107 Physics: Waves and Modern Physics | 3 | COMP 1010 Computer Science | 3 |
| 074.101 Computer Science | 3 | ENG 1460 Introduction to Thermal Sciences | 3 |
| 130.112 Thermal Sciences | 4 | ENG 1450 Introductory Electrical and Computer Engineering Techniques | 3 |
| 130.113 Introduction to Engineering | 1 | ENG 1440 Introduction to Statics | 3 |
| 130.118 Introduction to Electric Circuits | 4 | ENG 1430 Design in Engineering | 3 |
| 130.135 Engineering Statics | 4 | MATH 1210 Classical/Linear Algebra | 3 |
| 130.140 Engineering Design | 4 | MATH 1710 Applied Calculus 2 | 3 |
| 136.151 Applied Calculus 1 | 3 | MATH 1510 Applied Calculus 1 | 3 |
| 136.171 Applied Calculus 2 | 3 | | |
| | 41 | | 36 |

A Summary of The Changes Include:

- Credit hours in each of the former engineering science courses, 130.112, 130.118, and 130.135 are reduced from 4 to 3 credit hours.
- 130.113 will be deleted in 2008 at which time students who have not completed the course will have to take 130.143 Design in Engineering.
- Introduction of a new mathematics course, 136.121.
- Introduction of a modified engineering design course 130.143.
- Deletion of 016.107 Physics 2: Waves and Modern Physics as a required course in the Preliminary Year. Subsequent to the Preliminary Year Program, a student would select a basic science elective from a list of suitable courses approved by the student's department, which may be PHYS 1070.
- The CAD course component will be introduced in subsequent years when students have progressed into Departments. The course will be tailored to the needs of the particular discipline and at a stage in a program when students will most benefit from the experience.

CHANGES TO THE PRELIMINARY YEAR

(a) **Introduce Math 136.121 Classical and Linear Algebra (3)**

The Department of Mathematics and ~~Astronomy~~ notes that students now take matrices and complex numbers in 136.210 but rather late. The proposal would put these topics back in first year where they used to be (006.120 as it was then). Other topics that used to be taught in 006.120 such as analytical trigonometry and roots of polynomials are either not currently covered or are introduced superficially in courses as needed. The assumption that students will learn this material on their own is questioned.

By introducing 136.121 each of 136.210 and 136.211 can be reduced by one credit hour, so the net increase in mathematics credit hours is one.

(b) **016.107 Waves and Modern Physics: No longer a required basic science**

Removing 016.107 as a required physics course for all students makes way for the basic sciences elective discussed earlier. Of course, a student could still choose to take 016.107 as his/her elective. Some departments, but not all, might still require 016.107 or an equivalent. However, in departments for whom a different basic sciences course might be preferable, the option to choose is opened up.

(c) **Reduction of credit hours in 130.112, 130.118, and 130.135 from 4 to 3**

Without the proposed reduction in credit hours in the three Preliminary Program engineering science courses (130.112, 130.118, and 130.135), alternate recommendations would increase the overall credit hours by one. There have been significant increases in overall credit hours required for graduation in all engineering programs compared to 7 years ago, hence the desire to reduce credit hours.

In addition, the Canadian Engineering Accreditation Board has noted that the overall course load for engineering students at the University of Manitoba is higher than most other institutions and has recommended a reduction in course load.

To achieve this goal while also providing hands-on exposure to the material through tutorials and laboratories, the basic course structure will consist of the equivalent of two 50-minute lecture slots per week, plus one 50-minute tutorial/laboratory per week. This loading is consistent with that of traditional three-credit hour lecture-only courses.

(d) **Introduction of CAD Course in Upper Levels**

The important role of CAD in the education of engineering students in all programs was recognized and there was approval of setting up a separate course (or equivalent) in upper level years. Each department has specific needs and not all can be met by the current model of teaching AutoCAD to all students in 130.140 in the Preliminary Year Program. Departments and the Design Engineering Program staff are ready to work together to achieve the objectives of a CAD course that is discipline specific. It was concluded that these objectives could be met by a 2-credit hour course or by 2-credit hours of instruction offered in an integrated way in existing courses.

BENEFITS OF THE RECOMMENDED CHANGES

- (a) The Preliminary Year Program work load is reduced from 13 to 12 courses and by 5 credit hours. It was noted that for students in the transition from High School to University the current Preliminary Year Program can be daunting because of the combination of class time and work load out of class. A reduction in courses and credit hours may also have the benefit of increasing the number of students transferring out of University 1 and/or reduce attrition.
- (b) The current single Design+CAD course (130.140) is split into two courses. The elements of 130.113 Introduction to Engineering are integrated into the first course which will introduce design to students in the Preliminary Year Program just as is currently done in 130.140. The CAD course component is delayed to subsequent years when students have progressed into departments. The benefit here is that the CAD course can be tailored to the needs of the particular discipline and at a stage in a program when students will most benefit from the experience.
- (c) The introduction of a basic sciences elective provides the opportunity for students to take a biology course. It is, however, considered premature to require that all engineering students take a biology course though the increasing relevance of biology in engineering is recognized. The elective will also allow students to deepen or broaden their basic sciences background in other areas. For example, a civil engineering student might wish to take a second geology course in addition to the one required in the program or to learn more physics or chemistry. It is also noted that the introduction of a basic sciences elective might make Engineering more attractive for students considering transfer options from U1 and other faculties, e.g., Science.
- (d) The introduction of 136.121 Classical/Linear Algebra will overcome numerous difficulties with the current sequence of courses, including holes in the background knowledge of engineering students, course scheduling problems, delays in graduation and serious problems for transfer students because of the lack of course equivalents with other math courses in the Faculty of Science. It is quite possible that students have dropped out of engineering or given up transferring into engineering and gone elsewhere because of these problems. The proposed new math course in the Preliminary Year Program on classical and linear algebra will increase the preparedness of engineering students in essential mathematical skills.

CONCLUSION

This proposal has been considered and approved by the Faculty Ad Hoc Committee on Curriculum, The Faculty of Engineering Academic Curriculum and Course Change Committee, and The Faculty of Engineering Faculty Council. The new courses being proposed have been approved by Senate as follows:

| | |
|----------------|---|
| December 2004: | 136.121 (MATH 1210) Techniques of Classical and Linear Algebra (3) |
| December 2005: | 130.142 (ENG 1420) Design in Engineering |
| | 130.144 (ENG 1440) Introduction to Statics |
| | 130.145 (ENG 1450) Introduction to Electrical and Computer Engineering |
| | 130.146 (ENG 1460) Introduction to Thermal Sciences |

The deletion of courses replaced by the introduction of the above-noted courses in Engineering were approved by Senate as follows:

| | |
|----------------|---|
| December 2005: | 130.112 Thermal Sciences (replaced by 130.146) |
| | 130.113 Introduction to Engineering (deleted from curriculum) |
| | 130.118 Introduction to Electric Circuits (replaced by 130.145) |
| | 130.135 Engineering Statics (replaced by 130.144) |
| | 130.140 Engineering Design (replaced by 130.142) |

Since the first year Engineering program is changing, the admission requirements for students wishing to enter the program after a first year of study outside Engineering need to change as well. These students will still have to complete at least eight courses from the list of 12 prerequisite (or first year) courses, but the list itself has been amended and the credit hour weight of each of the courses on the list (some of which used to carry a weight of four) is now uniformly three.

RECOMMENDATION

The Senate Committee on Admissions recommends to Senate that, to be eligible to be considered for admission to Engineering after a first year of study outside of the Faculty (including University 1), students must:

1. Present at least eight courses of three credit hours each from the newly proposed list of 12 prerequisite (or first year) courses;

| PROPOSED PREREQUISITE COURSES | | Cr Hr |
|--|--|----------|
| Complete minimum of 8 to enter a Dept. | | |
| CHEM 1300 University 1 Chemistry | | 3 |
| ENGL 1310 Literary Topics 1 | | 3 |
| PHIL 1290 Critical Thinking | | 3 |
| PHYS 1050 Physics 1: Mechanics | | 3 |
| COMP 1010 Computer Science | | 3 |
| ENG 1460 Introduction to Thermal Sciences | | 3 |
| ENG 1450 Introductory Electrical and Computer Engineering Techniques | | 3 |
| ENG 1440 Introduction to Statics | | 3 |
| ENG 1430 Design in Engineering | | 3 |
| MATH 1210 Classical/Linear Algebra | | 3 |
| MATH 1710 Applied Calculus 2 | | 3 |
| MATH 1510 Applied Calculus 1 | | 3 |
| | | 36 |

2. Achieve a GPA of at least 2.0 on eight courses with no grade less than "C".

Admission to Engineering remains competitive, which means that students who meet the minimum entrance requirements will be admitted only as space allows. As well, please note that applicants must eventually complete all 12 courses on the list of prerequisite courses in order to meet degree requirements.

Respectfully submitted,
Dr. D.R. Morphy, Chair
Senate Committee on Admissions

Terms of reference: Senate Handbook (revised 1992), pp.10.6-10.8



UNIVERSITY
OF MANITOBA

FACULTY OF GRADUATE STUDIES

John (Jay) Doering, Ph.D.
Dean

500 University Centre
Winnipeg, Manitoba
CANADA, R3T 2N2
Ph: (204) 474-9887
Fax: (204) 474-7553
E-Mail: jay_doering@umanitoba.ca

Date: Feb. 27, 2006

MEMORANDUM

To: Mr. Jeff LeClerc, University Secretariat, Senate Office, 310 Admin. Bldg.
From: Dr. John (Jay) Doering, Dean, Faculty of Graduate Studies
Subject: MOTIONS FROM THE FACULTY COUNCIL COMMITTEE OF GRADUATE STUDIES

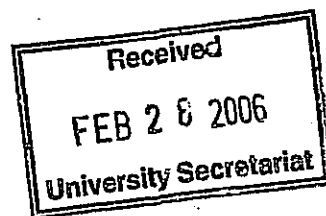
The following motion was passed at our Faculty Council meeting on February 27, 2006:

For Approval at Senate:

MOTION THAT the proposed minimum and maximum credit hour requirements for the M.Sc. and Ph.D. in Physiology be approved by Senate.

/jc

Atts.



Comments of the Senate Office:
The Senate Office has reviewed
the report to Senate.

Report of the Guidelines and Policy Committee of the Faculty of Graduate Studies from the meeting of November 23rd, 2005

Preamble

The Guidelines and Policy Committee is responsible for recommending specific changes to FGS regulations and policies. The Committee met on November 23, 2005 and made the following recommendation(s):

1. To approve the changes in minimum and maximum credit hour requirements for the M.Sc. and Ph.D. programs in Physiology.

Observations

1. The proposed and current minimum and maximum credit hours in the Department of Physiology are as follows:

| <u>Program</u> | <u>Minimum (previous) Cr. Hrs.</u> | <u>Maximum (previous) Cr. Hrs.</u> |
|-----------------------|---|---|
| M.Sc. | 15 (15) <i>Note (a)</i> | 30 (24) |
| Ph.D. | 9 (12) <i>Note (b)</i> | 30 (24) |
| Ph.D. transfer | 24 (27) <i>Note (a)</i> | 60 (48) |

Note (a): Dept. of Physiology requirement

Note (b): Faculty of Graduate Studies requirement

Rationale:

"A number of faculty members of the Dept. of Physiology feel their students are disadvantaged based on the maximum number of course hours they are allowed to take. This request generally applies to the Neurophysiology and Cardiovascular Physiology units, which have asked to have an increase in the maximum allowable credit hours for the M.Sc. and Ph.D. programs.

Conversely, some units feel that at the Ph.D. level, students have taken enough credit hours and want their students to focus more on their research. These units have requested that three (3) cr. hrs. be removed from the required minimum. This request is congruent with the suggestion made by the reviewers of the Physiology Graduate Program Review of 2004 that, in reference to other similar programs, Physiology Ph.D. students are taking longer to complete their degrees."

Supporting material attached:

1. Letter from Dept. of Physiology explaining the rationale behind reducing the minimum and increasing the maximum credit hours for the M.Sc. and Ph.D. programs in the Dept. of Physiology.

Recommendation

The Guidelines and Policy Committee of the Faculty of Graduate Studies recommends that the Faculty Council of Graduate Studies approve point 1. as under the "Preamble" above.

The recommendation was endorsed by the Executive Committee of the Faculty of Graduate Studies on February 9, 2006.

ATTACH.1

**UNIVERSITY
OF MANITOBA** | **Faculty of Medicine
Department of Physiology**

Basic Medical Sciences Building
730 William Avenue
Winnipeg, Manitoba
Canada R3E 3J7
Tel: (204) 789-3696
Fax (204) 789-3934

October 6, 2005

Dr. Jay Doering
Dean, Faculty of Graduate Studies
500 University Centre
University of Manitoba
Winnipeg, MB R3T 2N2

Dear Dr. Doering:

I am writing on behalf of the Department of Physiology to request a modification to the minimum and maximum credit hours required for both M.Sc. and Ph.D. programs. It has been suggested that I justify our request as follows:

1. What is the proposal?

Our department is interested in expanding the range of course hours required for completion of our M.Sc. and Ph.D. programs. Specifically, we want to increase to 30 the maximum number of credit hours available of our M.Sc. and Ph.D. students (with a prior M.Sc.). This would translate to 60 credit hours as the maximum for a student who enters the Ph.D. program without an M.Sc. Concurrently, we would like to decrease to 9 the minimum number of credit hours a student requires for graduation from the Ph.D. program. Again, this would equal 21 credit hours for a student entering the Ph.D. program without an M.Sc.

2. How does the proposal differ from the existing regulation?

At present MSc students must take a minimum of 15 credit hours and Ph.D. students must take a minimum of 12 additional credit hours for completion of their programs. They are allowed a maximum of 12 more credit hours over the course of study. For a Ph.D. student who does not have a Masters degree, they must take no less than 27 credit hours and no more than 48 credit hours. These guidelines are based on the regulations presented in the University of Manitoba Graduate Calendar.

3. What is the rationale behind the change?

The Department of Physiology is one of the largest in the Faculty of Medicine, consisting of over 70 graduate students. It also is formed of several distinct units, which include the Institute of Cardiovascular Sciences, as well as the Divisions of Stroke and Vascular Disease, Respiratory Physiology, Molecular Endocrinology and Neurophysiology. In addition, members of these units may be located at the Bannatyne campus, NRC Institute of Biomedical Sciences, St. Boniface Research Centre and the Manitoba Institute of Cell Biology at CancerCareMB. Since each unit has a somewhat different approach to graduate training, we must deal different cultures with respect to emphasis on coursework versus research. Thus, it is in the interests of the Department to make the overall Physiology program as flexible as possible to deal with these circumstances. Expanding the number of credit hours available to our students is one avenue to accomplish this.

With respect to increasing the maximum number of credit hours that can be taken by students in the Physiology graduate programs, this was requested at the departmental meeting held in June, 2005. The faculty members expressed the need to ensure their students would be able to take sufficient courses for credit to match equivalent programs at other institutions, particularly those located in the United States. Specialization within these programs is ensured by a heavy course load. In our program, all students are required to complete the core Medical Physiology course (90.724, 6 credit hours) because there is no undergraduate degree in Physiology at this university or most Canadian institutions. As well, many students enroll in Cell Biology (165.709), another 6 credit hour core course. As a result, their minimum requirements have already been met without any specialized courses being taken. As can be seen from the course calendar, a student taking cardiovascular physiology (for example) still has the opportunity to take an additional 10 courses in their area of specialization. It is on this basis that our department requests the increase in the permissible maximum number of credit hours.

At the other end of the spectrum are students with prior medical and/or graduate training for whom substantial core material is redundant. Their need is to focus primarily on research with a few courses in their area of specialization. For these students a lower minimum number of credit hours is appropriate. The request to modify our requirements to a minimum of 9 credit hours is limited to the Ph.D. program only. In addition, we feel this modification will decrease the time to graduation for these students, since fewer courses will speed passage through the program. This point is made primarily because it was noted as a concern in the graduate program review of our department.

I trust this information has provided a suitable rationale for the amendments we are making to the Department of Physiology graduate program and we look forward to your comments.

Sincerely,



Peter Zahradka
Chair, Graduate Program Committee
Department of Physiology

