



## The UNIVERSITY of WESTERN ONTARIO

### **SENATE AGENDA**

1:30 p.m., Friday, October 21, 2011  
Richard Ivey School of Business, Room 1R40

1. **Minutes of the Meeting of September 23, 2011**
2. Business Arising from the Minutes
3. Report of the President (A. Chakma)
  - **President's Priorities**
4. Reports of Committees:
  - Operations/Agenda - **EXHIBIT I** (T. Carmichael)
  - Nominating Committee – **Exhibit II** (S. Macfie)
  - Academic Policy and Awards - **EXHIBIT III** (B. Timney)
5. Announcements and Communications - **EXHIBIT IV**
6. Enquiries and New Business
7. Adjournment

Senate meetings are scheduled to begin at 1:30 p.m. and normally will end by 4:30 p.m. unless extended by a majority vote of those present.

To download a complete copy of the Senate agenda, including minutes to be approved at the meeting plus exhibits and their attachments (36 pages) please go to the following website:

[http://www.uwo.ca/univsec/senate/minutes/2011/a1110sen\\_all.pdf](http://www.uwo.ca/univsec/senate/minutes/2011/a1110sen_all.pdf)

## **SUMMARY OF AGENDA ITEMS: OCTOBER 21, 2011**

### **APPROVAL OF MINUTES**

### **REPORT OF THE PRESIDENT**

President's Priorities

### **OPERATIONS/AGENDA COMMITTEE**

FOR ACTION

Senate Membership

FOR INFORMATION

Candidates for Degrees and Diplomas – Autumn 2011

Election Schedule

Minor Amendments to Terms of Reference of SCAPA, SUPR-U, SUPR-G

### **SENATE NOMINATING COMMITTEE**

FOR ACTION

Selection Committee for the Associate Vice-President (Research)

### **SENATE COMMITTEE ON ACADEMIC POLICY AND AWARDS (SCAPA)**

FOR ACTION

School of Graduate and Postdoctoral Studies: Introduction of a Graduate Diploma in Community Music Leadership

School of Graduate and Postdoctoral Studies: Introduction of a Non-Thesis Master of Engineering (MEng) in HVAC Systems

Faculty of Science: Introduction of a Minor in High Performance Computing

Faculty of Science: Withdrawal of the Major in Statistics Module

Faculty of Science and Schulich School of Medicine & Dentistry: Introduction of an Honors Specialization in Computational Biochemistry

Revisions to the Policy on Eligibility for Participating in the Spring Hong Kong Convocation Ceremonies

Revisions to the Policy on Structure of the Degree: Post-Degree Modules

FOR INFORMATION

School of Graduate and Postdoctoral Studies: Minor Amendment to the LLM/M.Phil (UWO/NALSAR) and LLM/LLM (NALSAR/UWO) Dual-Credential Degree Program

New Scholarships

### **ANNOUNCEMENTS & COMMUNICATIONS**

FOR INFORMATION

Standard Report



# The UNIVERSITY of WESTERN ONTARIO

## MINUTES OF THE MEETING OF SENATE

September 23, 2011

The meeting was held at 1:30 p.m. in Room 1R40, Richard Ivey School of Business.

SENATORS: 75

J. Aitken Schermer	J. Garnett	B. Neff
I. Ajiferuke	K. Goldthorp	D. Neufeld
J. Barnett	H. Hassan	E. Ng
J. Bend	N. Heapy	J. O'Brien
I. Birrell	T. Hewitt	J. Orange
M. Blagrove	J. Holmes	J. Polgar
J. Boulter	B. Hovius	V. Prabhu
S. Camiletti	A. Hrymak	S. Primak
K. Campbell	R. Klassen	C. Rice
T. Carmichael	G. Kulczycki	G. Rowe
A. Chakma	H. Lagerlund	V. Schwean
S. Cheema	J. Lamarche	I. Scott
M. Ciniello	B. Leipert	P. Simpson
S. Connor	J. Leonard	D. Stanford
L. Davies	A. Li	D. Sylvester
J. Deakin	S. Lupker	A. Thind
C. Dean	S. Macfie	B. Timney
J. Doerksen	S. Madhavji	E. Uberig
B. Duncan	J. Matthews	K. Veblen
W. Dunn	S. McClatchie	R. Watson
L. Elliott	S. McDonald Aziz	J. Weese
J. Etherington	P. McKenzie	G. West
C. Farber	M. McNay	M. Wilson
A. Fearnall	M. Milde	B.A. Younker
K. Foullong	K. Mooney	P. Yu

Observers: A. Forgione, L. Gibbon, K. Okruhlik, G. Tigert, B. Traister, A. Weedon

By Invitation: C. Dunbar

The minutes of the meeting of June 10, 2011, were approved as circulated.

S.11-130 **REPORT OF THE PRESIDENT**

The President reported on the following: 5,100 first-year students, Vanier Canada Scholarships, QS World University Rankings, Collective Bargaining update and the Fraunhofer announcement. Overhead slides used to highlight his presentation are attached as [Appendix 1](#).

S.11-131 **Western and the London Community**

Senator Etherington remarked that despite all of the economic benefits to the London and surrounding area by Western, the record of community involvement by Western people and the increasing success of Western's downtown-based Continuing Education program, Western still receives periodic negative and critical comments such as those contained in a recent London Free Press article. He asked what communication strategies were in place to deal with these sorts of stories. Dr. Chakma replied that Western has a multi-faceted and proactive strategic approach to engaging all of the many different constituencies within London and the region and increasingly around the world which make up the greater Western community. The approach includes relationship building with the Mayor, the City of London Council and all of the local elected officials throughout southwestern Ontario, partnerships with industry at the research parks on campus, in Sarnia and at the Advanced Manufacturing Park, research projects and community service-learning initiatives, the student-run dental clinic and legal aid clinic. Communications and Public Affairs works with local and national media outlets to put Western's best stories in the public eye. Those "good news" stories outweigh the occasional negative stories that arise from time to time.

**REPORT OF THE OPERATIONS/AGENDA COMMITTEE** [Exhibit I]

S. 11-132 **Senate Membership – School of Graduate and Postdoctoral Studies – Education Constituency**

It was moved by T. Carmichael, seconded by J.B. Orange,

That the seat held by Robert Macmillan, elected faculty representative on Senate for the School of Graduate and Postdoctoral Studies – Education constituency, be declared vacant as a result of his resignation and that Carol Beynon be elected to complete his term (July 1, 2011 – June 30, 2012).

CARRIED

S.11-133 **Revision to Appointment Procedures for Senior Academic and Administrative Officers of the University: P. Associate Vice-President (Research)**

It was moved by T. Carmichael, seconded by G. Rowe,

That Senate approve the change to the appointment procedures of the Associate Vice-President (Research) as shown in Exhibit I, Appendix 1.

CARRIED

S.11-134 **2012 CONVOCATION DATES**

The 2012 Convocation dates are:

Huron University College Theological Convocation - Thursday, May 3  
MBA Spring Convocation - Wednesday, April 4  
Schulich School of Medicine & Dentistry - MD Program - Friday, May 18  
Hong Kong Convocation - Sunday, May 27  
Spring Convocation (299th ) - Tuesday, June 12 to Friday, June 15 and Monday, June 18 to  
Wednesday, June 20  
Autumn Convocation (300th) - Thursday, October 25 and Friday, October 26

**REPORT OF THE SENATE NOMINATING COMMITTEE** [Exhibit II]

S.11-135 **Vice-Provost and Associate Vice-President (International Relations)**

The following were elected to the Selection Committee for the Vice-Provost and Associate Vice-President (International Relations):

A. Hrymak, D. Jeffrey, J. McMullin and E. Uberig

S.11-136 **Senate Committee on Academic Policy and Awards** (SCAPA)

M. Ciniello was elected to the Senate Committee on Academic Policy and Awards to complete the term of S. Nuromohamed who has resigned.

**REPORT OF THE SENATE COMMITTEE ON ACADEMIC POLICY AND AWARDS** [Exhibit III]

S.11-137 **Faculty of Arts and Humanities: Renaming of the Diploma/Certificate in Writing for Professional Programs; Revised Admission Requirements for Diplomas and Certificates in the Program in Writing, Rhetoric and Professional Communications**

It was moved by B. Timney, seconded by M. Milde,

That effective September 1, 2011, the Diploma/Certificate in Writing for Professional Programs be renamed the Diploma/Certificate in Professional Communication, and the admission requirements for the Diploma/Certificate in Professional Communication and the Diploma/Certificate in Writing be revised as set out in Exhibit III, item 1.

CARRIED

S.11-138 **School of Graduate and Postdoctoral Studies: Doctoral Co-tutelage Dual-Credential Degree Agreement between the University of Padua, Italy and The University of Western Ontario**

It was moved by B. Timney, seconded by T. Carmichael,

That effective September 1, 2011, a co-tutelage dual-credential degree program that leads to a doctoral degree from each of The University of Western Ontario and the University of Padua, Italy, in all fields of study common to both institutions, be established in accordance with the agreement set out in Exhibit III, Appendix 1.

CARRIED

S.11-139 **Faculty of Law: Introduction of the LLM/MPhil (UWO/NALSAR) and LLM/LLM (NALSAR/UWO) Dual-Credential Degree Program with NALSAR University of Law, Hyderabad, India**

Prior to presenting the item, the Chair reported that the first paragraph under "Tuition" in the calendar copy should be revised to read as follows:

*NALSAR students in the first year of the LLM/LLM program will pay tuition to NALSAR. In their second year at UWO, they will pay tuition to UWO at the same level as its other international students.*

It was moved by B. Timney, seconded by I. Scott,

That effective September 1, 2011, the LLM/MPhil and the LLM/LLM Dual-Credential Degree Program between the UWO Faculty of Law and NALSAR University of Law, Hyderabad, India, detailed in Exhibit III, item 3, be introduced.

CARRIED

S.11-140 **Revision to the Admission Requirements of the Scholar's Electives Program**

It was moved by B. Timney, seconded by M. Milde,

That effective September 1, 2011, the Admission Requirements for the Scholar's Electives Program be revised as set out in Exhibit III, item 4.

CARRIED

*\*Secretary's note: The revision does not apply to the Scholar's Electives programs at the Affiliated University Colleges.*

S.11-141 **New Scholarships and Awards**

SCAPA has approved on behalf of the Senate, the Terms of Reference for the following new scholarships and awards, for recommendation to the Board of Governors through the President & Vice-Chancellor:

Michael S. Yuhasz Award (Any Undergraduate, Graduate or Affiliated University College Student - Athletic Award [Wrestling])  
Meds 1969 Dr. Fred & Anne Pattison Humanitarian Award (Schulich School of Medicine & Dentistry, Medicine)  
Virginia Harris International Admission Scholarships (Any Undergraduate Program)  
Virginia Harris Exchange Scholarship (Faculties of Arts and Humanities, Science, Social Science, Health Sciences, FIMS, Music, Engineering)  
Keith R. Halpenny Men's Basketball Award (Any Undergraduate, Graduate or Affiliated University College Student - Athletic Award [Basketball])

S.11-142 **Schulich School of Medicine & Dentistry: Revisions to the "Plan of Undergraduate Instruction" for the MD Program**

In addition to some minor wording changes, the "Plan of Undergraduate Instruction" for the MD program has been revised, as highlighted in Exhibit III, information item 2, effective September 1, 2012, to extend the time some students in Year 3 of the MD Clerkship will spend at some of the rural hospitals.

S.11-143 **Revisions to the Guidelines for the Structure of the Academic Year**

The Guidelines for the Structure of the Academic Year have been revised to reflect the changes to the schedule of the Convocation Ceremonies approved at the May 13, 2011 Senate meeting.

S.11-144 **Final Approval of the New Institutional Quality Assurance Process (IQAP) at Western**

In September 2010, SCAPA and Senate approved the establishment of two new subcommittees – SUPR-U and SUPR-G. In addition, SCAPA and Senate approved the proposed Institutional Quality Assurance Guidelines before its submission to the Provincial Quality Council.

The Quality Council approved the final version of Western's Institutional Quality Assurance Process on May 4, 2011. This document follows very closely the processes and practices already in place for introducing new programs and evaluating existing programs at both the undergraduate and graduate levels.

The approved document, attached for information as Exhibit II, Appendix 2, is posted on the Web at: <http://www.uwo.ca/univsec/handbook/igap/WesternIQAP.pdf>.

**SENATE COMMITTEE ON UNIVERSITY PLANNING** [Exhibit IV]  
(Exhibit distributed at the meeting)

S.11-145

**NSERC/FPIInnovations Industrial Research Chair in Forest Biorefinery**

It was moved by A. Hrymak, seconded by D. Neufeld,

That the terms for the NSERC/FPIInnovations Industrial Research Chair in Forest Biorefinery be approved as follows.

Donor and Funding: The creation of this Chair is made possible through a generous donation of \$1 million from FPIInnovations as well as a commitment of \$500,000 from NSERC to further support the Chair.

The \$1 million expendable gift from FPIInnovations will be paid in equal pledge payments of \$200,000 annually (\$100,000 cash and \$100,000 gift in kind) between May 2011 and May 2015. These funds may be utilized by the University in paying costs and expenses of the Chair program (including the purchase of equipment)

The \$500,000 expendable gift from NSERC will also be provided in five equal payments of \$100,000 each for a minimum cash commitment of \$200,000 annually to support the Chair. Additional funds and gifts-in-kind will be provided through donors including Arclin Canada, The Bioindustrial Innovation Center (BIC) and others.

Effective Date: May 1, 2011

Purpose: The gift from FPIInnovations and commitment from NSERC will support the establishment of the NSERC/FPIInnovations Industrial Research Chair in Forest Biorefinery in the Faculty of Engineering. The creation of this Chair will position Western at the forefront of Forestry Biorefining research and will enable the University to further develop research expertise and train students in the area of forest biorefinery.

The administration of the spending of resources will be the responsibility of the Dean of the Faculty of Engineering.

The naming of this Chair is supported by the Dean of the Faculty of Engineering.

Criteria: Appointments to the NSERC/FPIInnovations Industrial Research Chair in Forest Biorefinery will be conducted in accordance with University policies and procedures on Academic appointments. The appointment to the Chair will be for a period of five years.

The first Chair has been appointed and approved by NSERC. Dr. Chunbao (Charles) Xu, Associate Professor, Department of Chemical and Biochemical Engineering is the holder of the NSERC/FPIInnovations Industrial Research Chair in Forest Biorefinery. Dr. Xu came to Western from Lakehead University where he worked since 2005 as an Associate Professor.

Reporting: The University, through the Faculty of Engineering will report to NSERC and FPIInnovations as agreed upon in agreements set out by those organizations.

CARRIED

**SENATE HONORARY DEGREES COMMITTEE** [Exhibit V]

S.11-146

**Honorary Degree Recipients – Autumn 2011**

The report of the Honorary Degrees Committee announcing the honorary degree recipients for Autumn Convocation 2011, detailed in Exhibit V, was received for information.

S.11-147

**REPORT OF THE ACADEMIC COLLEAGUE** – [Exhibit VI]

The Report of the Academic Colleague on the August 2011 meeting, detailed in Exhibit VI, was received for information.

S.11-148 **Announcements and Communications** [Exhibit VII]

Announcements and Communications, detailed in Exhibit VII, was received for information.

**ENQUIRIES AND NEW BUSINESS**

S.11-149 **MTCU Policy on the Use of Clickers**

In response to a question about the purchase of clickers and the Ministry of Training, Colleges and Universities' (MTCU) mandate that students should not be subject to additional fees for online resources, Dr. Deakin commented that it is not the use of clickers that is a contravention of the MTCU policy. Clickers are deemed an acceptable additional cost in the same way that a lab coat or supplies for a studio course are considered a legitimate cost under the policy. It is the requirement that students pay a license or access fee for the assessment of material that contributes to the final grade which is in contravention of the MTCU policy.

**ADJOURNMENT**

The meeting adjourned at 2:00 p.m.

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A. Chakma  
Chair

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I. Birrell  
Secretary

The Board, at its meeting on September 27, 2011 approved the President's Priorities outlined below:

### **President's Priorities for 2011-12**

At the beginning of each academic year, I outline the high-level priorities I plan to pursue in the year ahead. These priorities are informed by input gathered from individual colleagues and groups within our campus community, as well as from key external stakeholders who play important roles in helping to secure Western's success. During the previous two years, I have articulated my priorities in general terms with a view to setting broad directional goals. For my 2011-12 report, I build on those directional goals but provide some sharper focus to my operational priorities.

#### **1. Strengthen Western's reputation for academic excellence**

- Enhance global recognition of core academic and research areas
- Build upon our identified signature areas of teaching and research strength
- Identify and nurture emerging areas of strength
- Encourage and support inter-disciplinary and inter-faculty initiatives
- Establish niche graduate programs that draw on our areas of strength

#### **2. Build internationalization initiatives and strategic partnerships**

- Develop and refine strategies for increasing international undergraduate student enrolment toward and beyond levels on par with our peer institutions
- Increase opportunities for study-abroad and international exchange
- Expand international partnerships, with focus in countries/regions including China, Brazil, Germany, and East Africa, to develop new research/learning opportunities
- Engage our alumni—at home and abroad—in identifying, developing and supporting international initiatives and strategic partnerships
- Exploit the potential our Advanced Manufacturing Park provides for strategic partnerships with industry and other academic/research institutions

#### **3. Execute capital plans in support of quality and strategic growth**

- Begin construction of new 1,000-bed residence to support strategic enrolment growth and maintain capacity to ensure our first-year residency guarantee
- Begin construction of new Family Medicine facility on the Westminster grounds
- Begin construction of the WindEEE Dome and International Composite Research Centre at the Advanced Manufacturing Park
- Occupy Phase 1 of the new Ivey business school, and begin Phase 2 construction
- Complete renovation of Physics-Astronomy building
- Plan renovations of the former Ivey building for new academic purposes
- Plan renovations of Talbot Hall for the Don Wright Faculty of Music
- Complete renovations of Stevenson and Lawson Halls

#### **4. Increase fundraising activity in support of academic priorities**

- Identify and articulate compelling institutional aspirations that have strong potential for alignment with philanthropic interest and opportunity
- Strengthen internal campaign support structures and volunteer engagement
- Re-position and formally re-launch Western's fundraising campaign
- Focus on opportunities to increase the number of endowed research chairs by leveraging Western's matched giving program

#### **5. Raise Western's local, provincial, national and international profile**

- Develop and execute tactical plans emerging from the strategic communications and institutional branding review
- Strengthen existing and cultivate new relationships with all levels of government, including outreach to local community organizations and international stakeholders
- Pursue and accommodate public speaking and media opportunities

**REPORT OF THE OPERATIONS/AGENDA COMMITTEE**

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**Senate Membership – Undergraduate Student Constituency**  
**Candidates for Degrees and Diplomas – Autumn Convocation 2011**  
**Officer of Convocation**  
**Senate Election Schedule for Spring 2012**  
**Revisions to the Terms of Reference of SCAPA, SUPR-U and SUPR-G**

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FOR APPROVAL

1. **Senate Membership – Undergraduate Student Constituency**

**Recommended:** That the seat held by Sabrina Nourmohamed, acclaimed undergraduate student representative on Senate for the Science constituency, be declared vacant as a result of her resignation and that George Warren Cracknell be elected to complete her term until June 30, 2012.

FOR INFORMATION

2. **Candidates for Degrees and Diplomas - Autumn Convocation - 2011**

On behalf of the Senate the Provost approves the list of Candidates for Degrees and Diplomas upon the recommendation of the Registrar [S.96-124]. The list of Candidates approved by the Provost will be appended to the Official Minutes of the October 21, 2011 Senate meeting.

3. **Officer of Convocation**

The following Officer of Convocation has been appointed (term to June 30, 2013):  
Margaret Kellow – Assistant Chief Public Orator

4. **Senate Election Schedule for Spring 2012**

<b>Faculty and Administrative Staff Constituencies</b>	
Call for Nominations [WWW, Western News]	Thursday, January 12
Nominations Open	8:30 a.m., Thursday, January 12
Nominations Close	4:30 p.m., Thursday, January 26
Posting of Nominations [Room 4101 STH, WWW]	Friday, January 27
Balloting on the Web - Polls Open	12:01 a.m., Tuesday, February 7
Balloting on the Web - Polls Close	11:59 p.m., Wednesday, February 8
Posting of Results [Room 4101 STH, WWW]	Thursday, February 9
Publication of Official Results [Western News]	Thursday, February 16

<b>Graduate and Undergraduate Student Constituencies</b>	
Call for Nominations [WWW, Gazette, Western News]	Thursday, January 12
Nominations Open	8:30 a.m., Thursday, January 12
Nominations Close for Graduate and Undergraduate "Academic" Constituencies	4:30 p.m., Thursday, January 26
Nominations Close for Undergraduate "At Large" Constituency	4:30 p.m., Monday, January 30
Mandatory Candidates' Advisory Meeting [Place TBA – arranged by USC]	evening, Monday, January 30
Posting of Nominations [Room 4101 STH, WWW]	Tuesday, January 31
Campaign Period begins	12:01 a.m. Tuesday, January 31
Campaign Period ends	11:59 p.m., Monday, February 13
Balloting on the Web - Polls Open	12:01 a.m., Tuesday, February 14
Balloting on the Web - Polls Close	8:00 p.m., Wednesday, February 15
Posting of Results [Room 4101 STH, WWW]	Thursday, February 16
Publication of Official Results [Western News]	Thursday, March 1

5. **Revisions to the Terms of Reference of SCAPA, SUPR-U and SUPR-G**

The Terms of Reference of SCAPA have been revised to correctly reference the subcommittees that forward annual reports to SCAPA for approval, and the links to Web sites referenced in the Terms of Reference of SUPR-U and SUPR-G have been added, as shown below.

**ACADEMIC POLICY AND AWARDS (SCAPA)**

**Terms of Reference:**

To formulate, and recommend to Senate:

policy concerning admission to, registration in, and curriculum of undergraduate academic programs offered by the Faculties and Schools and Affiliated University Colleges of the University;

any other general academic policy affecting all students at the University, whether undergraduate or graduate.

To examine, for recommendation to Senate, proposals for the establishment of new programs and/or modules and the discontinuation of existing programs and/or modules. \*

To review proposals for the introduction or discontinuation of undergraduate courses, or changes to undergraduate courses, programs or modules which have been made to the Deans' Academic Programs (DAP) "virtual" subcommittee of SCAPA, if a proposal has been challenged by a Faculty, School, Affiliated University College, the Registrar, or the University Librarian, the Associate Secretary of Senate, or the Director of Continuing Studies and to rule on the proposals and report to DAP. \*

To examine policies concerning scholarships and/or awards and to make recommendations to Senate.

On behalf of the Senate, to approve the establishment of terms of reference for scholarships and/or awards not involving changes in the scholarship policy of the University, for recommendation to the Board of Governors through the President & Vice-Chancellor.

To receive and forward to Senate, the annual report of award recipients selected by the Subcommittee on Teaching Awards and to consider, for recommendation to Senate, changes in the policies, procedures and criteria governing the awards.

~~To receive and forward to Senate annual reports from the Vice-Provost (Graduate and Postdoctoral Studies) on the results of the appraisal process of existing graduate programs and from the Subcommittee on Undergraduate Program Review.~~

To receive and forward to Senate annual reports from the Subcommittee on Program Review – Graduate and Subcommittee on Program Review – Undergraduate.

\* The appropriate Dean(s), Principal(s) and/or Chair(s) of Department(s) shall be invited to attend a meeting at which these issues are to be considered.

### Composition:

Ten members elected by Senate:

- eight members, at least five of whom are members of Senate at the time elected. At least one member shall be a faculty member from each of the Faculties of Arts and Humanities, Science, and Social Science and the School of Graduate and Postdoctoral Studies. No more than one of the members of faculty may be a Dean. Up to one of these members may be a Senator from the General Community.
- two students: one graduate and one undergraduate

One representative of the Affiliated University Colleges, appointed in consultation with the Principal concerned on a rotational basis (two year cycles).

Ex Officio:

President & Vice-Chancellor  
Provost & Vice-President (Academic)  
Vice-Provost (Academic Programs & Students) [Registrar]  
Vice-Provost (Graduate & Postdoctoral Studies)  
University Librarian  
USC Vice-President University Affairs  
SOGS Vice-President Academic

Secretary of Senate (non-voting)  
Associate Registrar (non-voting)  
Director, Undergraduate Recruitment and Admissions, Office of the Registrar (non-voting)

### Observers

Two representatives, one from each of the Affiliated University Colleges not currently represented in the voting membership, appointed in consultation with the Principals concerned on a rotational basis (two year cycles).

One Academic Counsellor (and an Alternate) selected on a rotational basis (one year cycles) by and from the Academic Counsellors of their respective Faculty (Arts and Humanities, Health Sciences, Science and Social Science) (non-voting)

Director, Continuing Studies (non-voting)

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### ADMINISTRATIVE NOTES

Membership Cycle: July 1 - June 30

New Members: Elected by Senate in April

Officers: Chair and Vice-Chair elected in May

Meetings: Monthly, normally at 2:30 p.m. on the Wednesday preceding a Senate meeting (September to June).

Rev. 2009-02

Rev. 2011 10

### **Subcommittee on Program Review – Undergraduate (SUPR-U)**

#### **Terms of Reference:**

To coordinate and assume responsibility for reviewing proposals for new undergraduate programs and to recommend approved proposals to the Senate Committee on Academic Policy and Awards (SCAPA) for consideration by Senate.

To coordinate and assume responsibility for reviewing proposals for major modifications to existing undergraduate programs, and to recommend approved proposals to SCAPA for consideration by Senate.

To coordinate and assume responsibility for periodic reviews of existing undergraduate programs, with a view to assessing their overall quality and making appropriate recommendations in light of these reviews to SCAPA and Senate.

To carry out all such reviews and appraisals in accordance with University Guidelines

<http://www.uwo.ca/univsec/handbook/igap/WesternIQAP.pdf>

and the Quality Assurance Framework adopted by the Council of Ontario Universities

<http://www.cou.on.ca/related-sites/the-ontario-universities-council-on-quality-assura/policies/pdfs/quality-assurance-framework---guide-may-2011.aspx>

To receive undergraduate program review materials conveyed in confidence by the Affiliated University Colleges for discussion (including the making of recommendations). Included in the materials will be a summary of the review, prepared by the Academic Dean or designate for the College, for amalgamation into the annual report of the Subcommittee to SCAPA and Senate, subject to minor revisions which may be made by SUPR-U as a result of its review.

To report annually for information, through SCAPA, to Senate and the Board of Governors.

#### **Composition:**

One faculty member or administrative staff member appointed by Faculty Council for each Faculty or Affiliated University College.

Two members elected by SCAPA.

#### **Ex Officio:**

Chair of SCAPA or Designate\*, who shall be Chair

Vice-Provost (Academic Programs & Students)[Registrar]

Associate Registrar (non-voting)

University Librarian (non-voting)

Director of the Teaching Support Centre (non-voting)

Secretary of Senate (non-voting)

Vice-President University Affairs of the University Students Council (non-voting)

\*The Designate must be a member of SUPR-U at the time of his/her appointment

#### **Resource:**

~~Coordinator, Office of the Provost (non-voting)~~

Administrative Assistant – Office of the Vice-Provost (Academic Programs & Students)[Registrar] (non-voting)

NEW: 2010-09 Revised: 2011 09

### **Subcommittee on Program Review – Graduate (SUPR-G)**

#### **Terms of Reference:**

To coordinate and assume responsibility for reviewing proposals for new graduate programs, and to recommend approved proposals to the Senate Committee on Academic Policy and Awards (SCAPA) for consideration by Senate.

To coordinate and assume responsibility for reviewing proposals for major modifications to existing graduate programs, and to recommend approved proposals to SCAPA for consideration by Senate.

To coordinate and assume responsibility for periodic reviews of existing graduate programs, with a view to assessing their overall quality and making appropriate recommendations in light of these reviews to SCAPA and Senate.

To carry out all such reviews and appraisals, for the Constituent University and the Affiliated University Colleges, in accordance with University Guidelines [<http://www.uwo.ca/univsec/handbook/igap/WesternIQAP.pdf>] and the Quality Assurance Framework adopted by the Council of Ontario Universities [<http://www.cou.on.ca/related-sites/the-ontario-universities-council-on-quality-assura/policies/pdfs/quality-assurance-framework---guide-may-2011.aspx>]

To report annually, for information, through SCAPA, to the Graduate Education Council (GEC), Senate and the Board of Governors.

#### **Composition:**

One faculty member or administrative staff member appointed by Faculty Council for each Faculty  
One faculty member or administrative staff member appointed by the Affiliated University Colleges (on a rotational basis)  
Two members elected by SCAPA  
Two Graduate Students elected by GEC  
Two faculty members elected by GEC

#### **Ex Officio:**

Associate Vice-Provosts (School of Graduate and Postdoctoral Studies) – who shall be co-chairs  
Vice-Provost (School of Graduate and Postdoctoral Studies)  
Manager, Student Academic Services (School of Graduate and Postdoctoral Studies) (non-voting)  
Senior Data Analyst (School of Graduate and Postdoctoral Studies) (non-voting)  
University Librarian (non-voting)  
Director of the Teaching Support Centre (non-voting)  
Secretary of Senate (non-voting)  
Vice-President Academic of the Society of Graduate Studies (non-voting)  
Resource:  
~~Coordinator, Office of the Provost (non-voting)~~  
Administrative Assistant – Office of the Vice-Provost, School of Graduate and Postdoctoral Studies (non-voting)

NEW: 2010 09 Revised: 2011 09

**REPORT OF THE SENATE NOMINATING COMMITTEE**

**FOR ACTION**

1. **Associate Vice-President (Research)**

**Composition:** A Committee to select an Associate Vice-President (Research) shall consist of:

- a) the Vice-President (Research & International Relations), who shall be Chair
- b) 4 persons elected by Senate, one of whom shall be a graduate student
- c) 2 persons elected by the Board of Governors

**Required:** 4 persons elected by Senate, one of whom shall be a graduate student

**Nominees:** Margaret Kellow (SS, History)  
Tom Carmichael (FIMS)  
Moira Stewart (SSMD, Family Med)  
Adam Day (graduate student, HS)

**FOR INFORMATION**

**Future Business of the Senate Nominating Committee**

Upcoming Nomination Agenda items are posted on the Senate website at:  
<http://www.uwo.ca/univsec/senate/newnoms.pdf>

**REPORT OF THE SENATE COMMITTEE ON ACADEMIC POLICY AND AWARDS**

**(SCAPA)**

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**School of Graduate and Postdoctoral Studies: Introduction of a Graduate Diploma in Community Music Leadership**

**School of Graduate and Postdoctoral Studies: Introduction of a Non-Thesis Master of Engineering (MEng) in HVAC Systems**

**Faculty of Science: Introduction of a Minor in High Performance Computing**

**Faculty of Science: Withdrawal of the Major in Statistics Module**

**Faculty of Science and Schulich School of Medicine & Dentistry: Introduction of an Honors Specialization in Computational Biochemistry**

**Revisions to the Policy on Eligibility for Participating in the Spring Hong Kong Convocation Ceremonies**

**Revisions to the Policy on Structure of the Degree: Post-Degree Modules**

**School of Graduate and Postdoctoral Studies: Minor Amendment to the LLM/M.Phil (UWO/NALSAR) and LLM/LLM (NALSAR/UWO) Dual-Credential Degree Program**

**New Scholarships**

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FOR APPROVAL

1. **School of Graduate and Postdoctoral Studies: Introduction of a Graduate Diploma in Community Music Leadership**

**Recommended:** That effective January 1, 2012, a Graduate Diploma in Community Music Leadership be introduced in the School of Graduate and Postdoctoral Studies, as set out in **Appendix 1**.

**Background:**

The new Graduate Diploma in Community Music Leadership fits well with the ethos of The University of Western Ontario, in great part because it is an interdisciplinary field of study. It draws upon a variety of musical genres and performance practices for musical, social, therapeutic and cultural ends. It opens graduate study to a new group of musicians who wish to engage others musically in the community sphere rather than the public education system, and does so through an innovative program featuring online learning technology blended with traditional face-to-face modes.

2. **School of Graduate and Postdoctoral Studies: Introduction of a Non-Thesis Master of Engineering (MEng) in HVAC Systems**

**Recommended:** That effective September 1, 2011, a non-thesis Master of Engineering (MEng) in HVAC systems be introduced in the School of Graduate and Postdoctoral Studies, as set out in [Appendix 2](#).

**Background:**

Heating, Ventilating and Air Conditioning (HVAC) deals with providing air at specific conditions (temperature, humidity, air quality, etc.) to a building space. HVAC systems are installed in almost all types of buildings, such as commercial, institutional, residential, health care, storage, etc. Globally, buildings consume up to 40% of the total energy, and almost 50% of the building energy is consumed by the HVAC systems, and there is a continuous growth of the HVAC industry. The demand for mechanical engineers in the HVAC industry is at three levels: 1) designing stage; 2) installation/commissioning stage; and, 3) operation and maintenance stage that covers the entire lifetime of the system. As the HVAC systems are utilized everywhere, there is a consistent demand for mechanical engineers in the HVAC industry all over the world. With the recent environmental awareness and the rise in the energy cost, there is a strong pressure on the HVAC industry to develop new concepts involving renewable energies to minimize the building energy consumption from conventional resources, which opens a new venue in this field.

3. **Faculty of Science: Introduction of a Minor in High Performance Computing**

**Recommended:** That effective September 1, 2011, a Minor in High Performance Computing be introduced in the Faculty of Science.

**NEW CALENDAR COPY**

<http://www.westerncalendar.uwo.ca/2011/pg587.html>

(pg. 167 of the 2011-12 Academic Calendar)

Add the Minor in High Performance Computing to the list of modules offered by the Faculty.

<http://www.westerncalendar.uwo.ca/2011/pg653.html>

(pg.184 of the 2011-12 Academic Calendar)

**MINOR IN HIGH PERFORMANCE COMPUTING**

This minor is especially designed for students with an interest in High Performance Computing (HPC), either for its own sake, or for its application to problems in the Sciences, Social Sciences, or Engineering.

**Admission Requirements**

Completion of first-year requirements, including 1.0 course with a mark of at least 60% from: Applied Mathematics 1201A/B or the former Calculus 1201A/B, Applied Mathematics 1413, Calculus 1000A/B, 1100A/B, 1301A/B, 1500A/B, 1501A/B, Mathematics 1600A/B or the former Linear Algebra 1600A/B.

**Module**

4.0 courses:

1.0 course: Computer Science 2101A/B, 3101A/B

1.5 courses: Computer Science 2208A/B, 2210A/B, 2211A/B

0.5 course: Computer Science 3340A/B

1.0 course from: Computer Science 3305A/B, 3350A/B, 3357A/B, 3388A/B, 4402A/B, 4457A/B

Note: If any of these courses have already been taken as part of an Honors Specialization, Specialization or Major in Computer Science, or an Honors Specialization in Information Systems, they must be replaced with 3000 or 4000-level Computer Science courses. This also includes Computer Science 2101A/B which is antirequisite to first-year Computer Science courses.

**Background:**

There has been a growing interest in High Performance Computing (HPC) in both research and instructional capacities across the Faculty of Science and in other Departments throughout the University. There is sufficient demand to warrant both courses and a module to support instruction in HPC, made accessible to non-Computer Science students to support other disciplines. (Structured properly, this can also support instruction within the Department of Computer Science.) DAP approvals for introducing 2101A/B and 3101A/B as new courses, and course revisions to add these courses as prerequisites to existing courses, have been received separately.

4. **Faculty of Science: Withdrawal of the Major in Statistics Module**

**Recommended:** That, effective September 1, 2011, admission to the Major in Statistics module in the Faculty of Science be discontinued; that students enrolled in the module prior to September 1, 2011 be permitted to continue with the understanding that they must complete the requirements prior to September 2015; and, that effective September 1, 2015, the module be withdrawn and all registration discontinued.

**Background:**

In May 2011, Senate approved the introduction of the new Major in Applied Statistics, effective September 1, 2011. This new module replaced the Major in Statistics module. The enrollment for the old module has been dwindling in the past few years and, as of Fall 2011, there are only two students in the fourth year and one student in the third year remaining in the module.

5. **Faculty of Science and Schulich School of Medicine & Dentistry: Introduction of an Honors Specialization in Computational Biochemistry**

**Recommended:** That an Honors Specialization in Computational Biochemistry, leading to a Bachelor in Medical Sciences (BMSc) degree, be introduced by the Faculty of Science and Schulich School of Medicine & Dentistry, effective September 1, 2012.

NEW CALENDAR COPY

**HONORS SPECIALIZATION IN COMPUTATIONAL BIOCHEMISTRY**

Enrollment in this module is limited and competitive, and requires registration in the BMSc Program. Meeting the minimum requirements does not guarantee that students wishing to enter or progress in this module will be offered enrollment. See BMSc Program for more detailed information.

**Admission Requirements**

Students must successfully complete their first-year requirements (5.0 courses during the Fall/Winter terms) with no failures. A mark of at least 60% must be achieved in each of the 3.0 principal courses below and an average of at least 75% must be obtained on these 3.0 principal courses:

1.0 course: Biology 1001A\* and 1002B\*, or the former Biology 1222 or 1223

1.0 course: Chemistry 1100A/B and 1200B, or the former Chemistry 1020, 1050, or 023.  
1.0 course from: (Calculus 1000A/B, 1100A/B, or 1500A/B), (Calculus 1301A/B or 1501A/B),  
Mathematics 1600A/B or the former Linear Algebra 1600A/B, Applied Mathematics 1201A/B or  
the former Calculus 1201A/B, Applied Mathematics 1413

\* Biology 1201A with a mark of at least 70% may be used in place of Biology 1001A, and Biology  
1202B with a mark of at least 70% may be used in place of Biology 1002B.

The following courses must be completed by the end of second year, with a mark of at least 60%  
in each:

0.5 course from: Physics 1028A/B, 1301A/B or 1501A/B  
0.5 course from: Physics 1029A/B, 1302A/B or 1502A/B

It is recommended that the two 0.5 Physics courses be taken in the Fall and Winter terms of the  
same academic year. Either the former Physics 1020 or 1024, with a minimum mark of 60%,  
may be used in place of the two 0.5 courses in Physics listed above.

### **Module**

10.0 courses:

0.5 course from: Computer Science 1025A/B or 1026A/B

0.5 course: Computer Science 1027A/B

1.0 course: Biochemistry 2280A, Biology 2581B

0.5 course from: Biology 2244A/B. Statistical Sciences 2244A/B, or the former Statistical  
Sciences 2122A/B

1.0 course from: Chemistry 2213A/B or 2273A; Chemistry 2223B or 2283G

1.0 course: Computer Science 2210A/B, 2211A/B

1.5 courses: Biochemistry 3380G, 3381A, 3382B

1.5 courses: Biochemistry 4483E (Research Project = 1.5 courses)

2.0 courses: Biochemistry 4410A, 4420B, 4435B, 4445F

0.5 course from: Biochemistry 4400F, 4430B, 4440A, 4450A, 4463G, 4465A

Notes for Module:

1. Enrollment in Biochemistry 3381A requires a minimum mark of 65% in Biochemistry 2280A,  
either Chemistry 2213A/B with a minimum mark of 65% or Chemistry 2273A with a minimum  
mark of 60%, and either Chemistry 2223B with a minimum mark of 65% or Chemistry 2283G  
with a minimum mark of 60%.
2. It is recommended that Computer Science 1025A/B or 1026A/B and 1027A/B be completed  
no later than Year 2. Enrollment in Computer Science 2210A/B and 2211A/B requires a  
minimum mark of 65% in Computer Science 1027A/B.

### **Background:**

Given the large amounts of sequence, structure, mass spectroscopic, and microarray data that continue  
to be produced and are becoming more and more important in medicine and medical research, the  
Department of Biochemistry would like to raise the profile of bioinformatics and computational  
biochemistry, and encourage students to incorporate these disciplines into their undergraduate program.  
The department would also like to train a number of students to become adept at using computational  
approaches to answer biological questions. In collaboration with the Department of Computer Science,  
the Department of Biochemistry currently offers two Bioinformatics modules, both of which are extremely  
heavy in computer science courses. Only one student has graduated with the Honors Specialization in  
Bioinformatics (Biochemistry Concentration) module; enrolment has been better for the Honors  
Specialization in Bioinformatics (Computer Science Concentration), but these students study Computer  
Science primarily and are not interested in biological questions so much as computer algorithms and  
programming.

To improve this situation, the goal of the Department of Biochemistry is to “migrate” the current Honors Specialization in Bioinformatics (Biochemistry Concentration), leading to a BSc degree, to an Honors Specialization in Computational Biochemistry, leading to a BSc degree. This new Honors Specialization module is based on the current Honors Specialization in Biochemistry module, except that 1.0 modular course (choice of Biology and/or Chemistry) has been removed and replaced by 2.0 modular courses from Computer Science. There is a significantly lesser emphasis on computer science than the current Honors Specialization in Bioinformatics (Biochemistry Concentration), but the module will contain sufficient computer science content to give the students a foundation in basic computer science skills that will help them develop their ability to use bioinformatics and computational biochemistry. In addition to a much lighter load in computer science, the Honors Specialization in Computational Biochemistry incorporates the 1.5 credit Biochemistry project course in Year 4, common to all modules offered by the Department of Biochemistry. The department anticipates that students in this module will apply bioinformatics and computational biochemistry to their research project, thereby facilitating and broadening the use of these approaches in the department as well as the other departments (Microbiology and Immunology, and Anatomy and Cell Biology) that pool their research projects with the Department of Biochemistry.

The Honors Specialization in Computational Biochemistry, leading to a BSc degree, was designed in consultation with Dr. Greg Gloor who teaches Biochemistry 4445F “Bioinformatics”, Dr. Peter Rogan (CRC in Genome Bioinformatics), Dr. Mike Katchabaw in Computer Science, and Russ Dickson, a graduate of the BSc Bioinformatics module and currently a graduate student in Biochemistry. The module is based on the idea that the Department of Biochemistry would like to train biochemists who are able to use computers to answer biological questions (i.e. that knowledge of biomedical science is most important), and that first-year students interested in Biochemistry, Chemistry, Biology, and/or Medical Sciences may not be aware of the importance of bioinformatics and computational approaches. Therefore, the students can take the standard first year program and register for their first computer science courses in second year.

This module may be completed only within a Bachelor of Medical Sciences (BSc) Honors degree, offered jointly by the Faculty of Science and the Schulich School of Medicine & Dentistry. Students registered in the Honors Specialization in Computational Biochemistry will register in the Faculty of Science in Year 2 and the Schulich School of Medicine & Dentistry in Years 3 and 4.

6. **Revisions to the Policy on Eligibility for Participating in the Spring Hong Kong Convocation Ceremonies**

**Recommended:** That the Policy on Eligibility for Participating in the Spring Hong Kong Convocation Ceremonies be revised as shown below:

The current policy is located at: <http://www.uwo.ca/univsec/handbook/general/convocation.pdf>

**Recommended:** That the policy relating to a student's eligibility for the Hong Kong Convocation ceremonies be revised as highlighted below.

**Policy on Eligibility for Participating in the Spring Hong Kong Convocation Ceremonies**

There will be a University-wide Convocation Ceremony in Hong Kong that involves, in addition to those who complete their Executive MBA degree in Hong Kong, any undergraduate or graduate student who was eligible to graduate at the Spring or Fall **a preceding Convocation ceremony in London or in the Spring ceremony of the same year.** of the preceding year in London or at the February in absentia degree conferral of the same year. **All** Students are required to apply to participate in the Hong Kong ceremony and will receive either their degree diploma (if not collected at a London ceremony) or a Certificate of Participation. **Students identified to participate who normally would have their degrees conferred in the subsequent June, are still eligible to be recognized in Hong Kong. However, their degrees will be conferred officially at the June convocation, and their diplomas will be mailed to them upon request. Note: Some details relating to a June graduate's academic achievement may not be known (“with distinction,” gold medal winner, etc.) in time for identification at the May Hong Kong Ceremonies.** (See also notes on diplomas below.)

## Background:

The Hong Kong convocation ceremony is an important part of the overall convocation experience that a student at Western has the opportunity to enjoy. As a result of scheduling requirements in Asia, the Hong Kong convocation occurs in May, prior to Western's largest June convocation period. Therefore, the scheduling has previously excluded the potential participation of a large group of students. In an effort to provide a convocation opportunity to all interested students, while respecting the scheduling demands placed on the Hong Kong administration, an amendment to the policy on eligibility for participation in Hong Kong is requested.

## 7. Revisions to the Policy on Structure of the Degree: Post-Degree Modules

**Recommended:** That the policy on Structure of the Degree: Post-Degree Modules be revised to provide more specific information for students and faculties, effective September 1, 2012.

The current policy is located in the Senate Handbook on Academic and Scholarship Policy:  
[http://www.uwo.ca/univsec/handbook/regn/registration\\_progression.pdf](http://www.uwo.ca/univsec/handbook/regn/registration_progression.pdf)

### STRUCTURE OF THE DEGREE

*unchanged*

*(on Page 10)*

#### Post-Degree Modules

After graduation with an undergraduate degree, students may complete additional Major and/or Minor modules(s) without completing a second degree. ***Students must consult the Dean's Office of the Faculty in which the module is offered to request permission to register in a Post-Degree module. Permission may be denied if there is significant overlap with courses completed within the first degree.*** Completion of Post-Degree modules will be recognized only by a notation on the student's transcript. A Post-Degree module must be in a different subject area, not included in the undergraduate degree.

Students must complete the total number of courses required for this additional module ***with an average on these courses of at least 60%. Courses successfully completed during the first degree that are considered "extra" courses by the Faculty offering the first degree may be considered for use towards the Post-Degree module, at the discretion of the Faculty offering the Post-Degree module. All courses required for the Post-Degree module must be completed through the course offerings of The University of Western Ontario. Completion of Post-Degree modules will be recognized only by a notation on the student's transcript.*** For example, to complete a Post-Degree Minor module, students must successfully complete at least 4.0 courses after graduation. Students must consult the Dean's Office of the Faculty in which the module is offered for permission to register in a Post-Degree module.

#### Second Degree (Excluding Professional Degrees)

##### ***Graduates of The University of Western Ontario:***

- ***Students must apply to the appropriate Faculty for permission to pursue a second degree at the same level or higher than the first degree.***
- ***The Faculty offering the second degree will consult the department(s) concerned and will consider admission requirements in determining whether the request will be granted.***
- ***Students must successfully complete all courses for the second degree through the course offerings of The University of Western Ontario.***
- ***Western courses determined as "extra" to the first degree may be used towards the second degree only with permission of the Faculty concerned.***
- ***The Faculty will consider the requirements for breadth, essay courses and residency in specifying the courses required to complete the second degree.***
- ***At least 5.0 senior courses are required to fulfill modular and degree requirements. The courses specified by the Faculty will be used in calculating the graduating average.***
- ***Students pursuing an Honors degree must achieve a minimum average of 70% on the modular courses specified for the second degree with no mark less than 60% in each modular course. A minimum average of 60% with no failures must be achieved on all optional courses. Higher requirements may apply to limited enrollment programs.***

- **Students pursuing a Four-Year Bachelor (non-honors) degree must achieve a minimum average of 60% on the modular courses specified for the second degree, and a passing grade in each modular and optional course. Higher requirements may apply to limited enrollment programs.**
- **Students must satisfy the breadth and essay degree requirements if not already satisfied within the first degree:**
  - **Breadth: 1.0 senior course from each of Categories A, B, and C must be completed.**
  - **Essay: at least 1.0 senior designated essay course must be completed.**

**Graduates of other accredited universities:**

- **Students must apply to the Faculty offering the second degree for admission as Special Students.**
- **The second degree must be at the same level or higher than the first degree.**
- **The Faculty offering the second degree will consult the department(s) concerned and will consider admission requirements in determining whether the request will be granted.**
- **Students must successfully complete all courses for the second degree through the course offerings of The University of Western Ontario.**
- **The Faculty will consider the requirements for breadth and residency in specifying the courses required to complete the second degree.**
- **At least 10.0 senior courses are required to fulfill modular and degree requirements. The courses specified by the Faculty will be used in calculating the graduating average.**
- **Students pursuing an Honors degree must achieve a minimum average of 70% on the modular courses specified for the second degree with no mark less than 60% in each modular course. A minimum average of 60%, with no failures must be achieved on all optional courses. Higher requirements may apply to limited enrollment programs.**
- **Students pursuing a Four-Year Bachelor (non-honors) degree must achieve a minimum average of 60% on the modular courses specified for the second degree, and a passing grade in each modular and optional course. Higher requirements may apply to limited enrollment programs.**
- **Students must satisfy the breadth and essay degree requirements for graduation:**
  - **Breadth: 1.0 senior course from each of Categories A, B, and C must be completed if not already satisfied within the first degree.**
  - **Essay: at least 1.0 senior designated essay course must be completed through The University of Western Ontario.**

The chart below indicates the possibilities for upgrading to an Honors Bachelor Degree:

<b>First degree</b>	<b>Second degree</b>
<b>Three-year degree containing:</b>	<b>Honors degree</b>
<b>Major Minor + Minor Major + Minor</b>	<b>Honors Specialization in either the same subject or a different subject than either the Major or Minor module completed in the previous degree</b>
	<b>Double Majors in a different subject than the Major module completed in the previous degree</b>
	<b>Double Majors in either the same subject(s) or different subject(s) as the Minor module(s) completed in the previous degree</b>
<b>Four-year degree (non-honors) containing:</b>	<b>Honors Degree</b>
<b>Specialization Specialization + Major Specialization + Minor</b>	<b>Honors Specialization in either the same subject or a different subject than the Specialization or Major or Minor module completed in the previous degree</b>
	<b>Double Majors in different subjects than the Specialization or Major or Minor module completed in the previous degree</b>
	<b>Double Majors, one of which is in the same subject as the Minor module completed in the previous degree</b>
<b>Major Major + Major Major + Minor Major + Minor + Minor</b>	<b>Honors Specialization in either the same subject or a different subject than a Major or Minor module completed in the previous degree</b>
	<b>Double Majors in different subjects than the Major or Minor module(s) completed in the previous degree</b>

	<i>Double Majors in the same subject(s) as the Minor module(s) completed in the previous degree</i>
<b>Honors degree containing:</b>	<b>Honors degree</b>
<b>Honors Specialization Honors Specialization + Major Honors Specialization + Minor</b>	<i>Honors Specialization in a different subject than the Honors Specialization or Major or Minor module completed in the previous degree</i>
	<i>Honors Specialization in the same subject as either the Major or Minor module completed in the previous degree</i>
	<i>Double Majors in different subjects than the Honors Specialization or Major or Minor module(s) completed in the previous degree</i>
	<i>Double Majors, one of which is in the same subject as the Minor module completed in the previous degree</i>
<b>Major + Major</b>	<i>Honors Specialization in either the same subject or a different subject than a Major module completed in the previous degree</i>
	<i>Double Majors in different subjects than the Major module(s) completed in the previous degree</i>

The chart below indicates the possibilities for upgrading to a Four-Year Bachelor Degree:

<b>First degree</b>	<b>Second degree</b>
<b>Three-year degree containing:</b>	<b>Four-year (non-honors) degree</b>
<b>Major Minor + Minor Major + Minor</b>	<i>Specialization in either the same subject or a different subject than the Major or Minor module completed in the previous degree</i>
	<i>Major(s) in the same subject(s) as the Minor module(s) completed in the previous degree.</i>
	<i>Major(s) in a different subject(s) than the Major or Minor module completed in the previous degree</i>
<b>Four-year degree (non-honors) containing:</b>	<b>Four-year (non-honors) degree</b>
<b>Specialization Specialization + Major Specialization + Minor</b>	<i>Specialization in a different subject than the Specialization or Major or Minor module completed in the previous degree</i>
	<i>Specialization in the same subject as the Major or Minor module completed in the previous degree</i>
	<i>Major in the same subject as the Minor module completed in the previous degree</i>
	<i>Major(s) in a different subject(s) than the Major or Minor module completed in the previous degree</i>
<b>Major Major + Major Major + Minor Major + Minor + Minor</b>	<i>Specialization in either the same subject or a different subject than the Major or Minor module completed in the previous degree</i>
	<i>Major(s) in the same subject(s) as the Minor module(s) completed in the previous degree.</i>
	<i>Major(s) in a different subject(s) than the Major or Minor module completed in the previous degree</i>

Notes:

Students applying to upgrade their previous degree conferred under the "old" University of Western Ontario regulations should consult their Faculty regarding permissible upgrades.

Students whose previous degree is a professional degree (BA Honors Business Administration, BESC, BFA, BMus, BMusA, BA(HEc), BSc(HEc), BSW(Hons), DDS, LLB or JD, MD, MDiv, MTS) should consult the Sequential Degree section for information.

**Second degree (When one degree is a Professional Degree)**

*The rest of the policy remains unchanged*

**Background:**

Previously, faculties have interpreted policies differently, and the proposed amendments are intended to provide a level of consistency thereby reflecting the current needs of students while maintaining the integrity of Western's processes.

FOR INFORMATION

8. **School of Graduate and Postdoctoral Studies: Minor Amendment to the LLM/M.Phil (UWO/NALSAR) and LLM/LLM (NALSAR/UWO) Dual-Credential Degree Program**

Senate approved the introduction of the new dual-credential program at its September meeting. A minor amendment has been made to the Notes section to indicate that NALSAR students will be admitted into the UWO LLM program only if they fully meet the entry requirements.

NEW CALENDAR COPY

<http://www.westerncalendar.uwo.ca/2011/pg518.html>

**LLM/M.Phil (UWO/NALSAR) - LLM/LLM (NALSAR/UWO) Dual-Credential Degree Program**

*no changes*

**LLM/LLM Program for NALSAR Law Students**

Begin at NALSAR in LLM program (2-year degree) and then to UWO for LLM (1-year degree)

Year	Academic Term	NALSAR Law	Western Law
Year 1	July - April	LLM Year 1 Tuition paid to NALSAR	
Year 2	Sept-Dec		Exchange to UWO in LLM program. Complete 2 (or 3) LLM courses (3 cr. each) Tuition paid to UWO.
	Jan - Aug		Complete remaining two LLM terms at UWO. Complete remaining 2 (or 1) LLM courses (3 cr. each) and thesis (12 credits) Tuition paid to UWO.
Both LLM degrees complete. Eligible for UWO's October convocation. NALSAR's degree to be conferred on approval by Academic Council.			

Notes:

- NALSAR students will be admitted into the UWO LLM, contingent upon satisfaction of the full entry requirements.***
- NALSAR students will complete 24 credit hours to receive the UWO LLM.
- Students must be in good standing throughout the duration of the program
- Students will be charged international student fees for their final terms at UWO.
- UWO LLM funding available to students in this combined degree program if they meet the criteria.

9. **New Scholarships**

SCAPA has approved on behalf of the Senate, the Terms of Reference for the following new scholarships, for recommendation to the Board of Governors through the President & Vice-Chancellor:

Danter Family Ontario Graduate Scholarship (School of Graduate and Postdoctoral Studies, Science or Medicine & Dentistry)

Awarded annually to provide partial support to a full-time graduate student who is in a Master's or Doctoral program in either the Schulich School of Medicine & Dentistry or the Faculty of Science, based on academic achievement and research merit. The School of Graduate and Postdoctoral Studies will select the recipient who is funded through an Ontario Graduate Scholarship (OGS) or Queen Elizabeth II Graduate Scholarship in Science and Technology (QEGSST). This funding is made possible by a bequest from Florence Pennington.

Value: 1 at \$5,000\*  
Effective: May 2011

*\*Ontario Graduate Scholarship (OGS/QEGSST) funding ensures a 2:1 match through the Provincial Government, increasing the value of the scholarship to \$15,000.*

James and Ellen Baird Ontario Graduate Scholarship (School of Graduate and Postdoctoral Studies, Music)

Awarded annually to provide partial support to a full-time graduate student who is in a Master's or Doctoral program in the Don Wright Faculty of Music, based on academic achievement and research merit. The School of Graduate and Postdoctoral Studies will select the recipient who is funded through an Ontario Graduate Scholarship (OGS) or Queen Elizabeth II Graduate Scholarship in Science and Technology (QEGSST). This funding is made possible through a bequest from Mr. James Baird.

Value: 1 at \$5,000\*  
Effective: May 2011

*\*Ontario Graduate Scholarship (OGS/QEGSST) funding ensures a 2:1 match through the Provincial Government, increasing the value of the scholarship to \$15,000.*

Ontario Graduate Scholarship - Anonymous Donor (School of Graduate and Postdoctoral Studies)

Awarded annually to provide support to a full-time graduate student who is in a Master's or Doctoral program in any Faculty, based on academic achievement and research merit. The School of Graduate and Postdoctoral Studies will select the recipient who is funded through an Ontario Graduate Scholarship (OGS) or Queen Elizabeth II Graduate Scholarship in Science and Technology (QEGSST). This funding is made possible through an anonymous donor.

Value: 1 at \$5,000\*  
Effective: May 2011 to April 2016

*\*Ontario Graduate Scholarship (OGS/QEGSST) funding ensures a 2:1 match through the Provincial Government, increasing the value of the scholarship to \$15,000.*

Kathleen and William Troost MBA Scholarship (School of Graduate and Postdoctoral Studies, Business)

Awarded annually to a full-time student entering the Master of Business Administration program at the Richard Ivey School of Business, based on academic achievement and demonstrated community leadership. The MBA Scholarship Committee of the Richard Ivey School of Business will review and select each award recipient. This scholarship is made possible by a generous gift from Kathleen and William Troost, MBA '75.

Value: 1 at \$35,000  
Effective: May 2012 to April 2015 inclusive

Proposal for a Graduate Diploma in Community Music Leadership  
Don Wright Faculty of Music, Department of Music Education

Summary

This proposal seeks approval for the introduction of a new Type 3 graduate diploma in Community Music Leadership. A Type 3 diploma is a stand-alone diploma to which students are directly admitted. This will be one of very few graduate programs in this field and the first of its kind in Canada. The graduate diploma in Community Music Leadership is a natural outcome of current work in music education. It aligns with the University's Strategic Research Plan 2008-2011 by building upon an area of existing research strength within the Don Wright Faculty of Music (DWFoM) through innovative graduate program development.

Such a diploma in Community Music Leadership fits well with the ethos of the University of Western Ontario in great part because it is an interdisciplinary field of study. It draws upon a variety of musical genres and performance practices for musical, social, therapeutic and cultural ends. It opens graduate study to a new group of musicians who wish to engage others musically in the community sphere rather than the public education system and does so through an innovative program featuring online learning technology blended with traditional face-to-face modes.

This diploma aligns with the Faculty Academic Plan by assuring continuation of long term commitments that the Department of Music Education has made to promote access to music making for all and in growing graduate enrolment and provision. It also aligns with the University agenda to develop innovative graduate programs.

Rationale

Currently the Don Wright Faculty of Music provides opportunities for promising music students to become professional music educators working with young people in school systems. Graduates carry Western's good name throughout Canada and beyond and the Faculty's program is well respected in the field. Indeed, Donald McKellar established the Faculty of Music with just such an aim in mind: to promote excellent music education.

However musical education and musical experiences do not stop with secondary school. Skilled community musician/educators are needed to work in a variety of settings. There is an increased need for leadership in music education with learners of all ages and in many contexts.

Program Objectives

It is proposed that a diploma program that can be undertaken as a full-time one-year graduate program of study be undertaken on a part-time basis. The program will:

- 1) Offer opportunities to develop depth and breadth of expertise and understanding in community music,
- 2) Equip students in an emerging field with a professional diploma,
- 3) Emphasize practical musical training in multiple genres, grounding in the many skills needed for this field balanced with rigorous academic study, and
- 4) Develop the skills necessary to contribute to research and teaching in the emerging field of community music in Canada.

Broader outcomes may involve the creation of innovative projects involving inner city social healing, intergenerational music making and orchestral outreach. This diploma program is envisioned as supporting students as they seek their niche working with others outside of the usual music education settings. The Faculty plans to compile information on the future career paths of alumnae.

These objectives are a good fit for the mandate of the Faculty of Music and for its role at the cutting edge in music education.



### Recruitment and Admissions

Prospective students will be music educators and musicians who wish to gain a professional qualification in the field of community music leadership and to facilitate the expressive work of others. It is anticipated that the first cohort will consist of 10 to 15 students and will include both older and international students. Recruitment strategies will include announcements through professional channels, through appropriate music education and music therapy journals, letters to colleagues, and personal communications. The expected date of the first uptake is September 2012.

It is anticipated that the program will be of great interest to international students. A cohort size of between ten and twenty students per year is anticipated after an initial build-up period of five years. The kinds of musicians who would work in community music may not fit the profile of a music major in a regular university program. Many fine musicians play instruments that are not used in orchestras. They may choose to specialize in popular, traditional, jazz, or other musical genres. A background in a related arts area or in a social science field may serve as an excellent preparation for working with people in informal contexts.

### Admission Requirements

Prior academic attainments equivalent to an undergraduate degree are required, although the degree does not need to be in music. Candidates are required to submit a sample of writing demonstrating ability to think and write in English.

Applicants to this program are expected to demonstrate high standards of practical musicianship as well as the skills necessary to work effectively as a facilitator and enabler of others in music. Candidates will be required to demonstrate their musicianship through an audition process, preferably in person. If the candidate is international, the review committee may use video or skype. Expertise on any instrument and in any genre will be considered.

Applicants with non-standard qualifications may qualify for entry through relevant work experience. Applicants in this category may be asked to attend an interview and present a portfolio demonstrating their work and achievements. Examples of applicants with non-standard qualifications may include musicians who perform in popular genres such as hiphop, on instruments such as electric guitar. Their expertise may be with ensembles such as samba bands, or creative song writing. They may be older students or with university training in a variety of social sciences, medicine, or related arts.

### Program Delivery

The diploma program will use WIMBA and other emerging technologies for online course delivery augmented with both face-to-face seminars, and counseling. The dual delivery nature of the program will enable students and musicians in remote areas to work with this program.

Since there is potential to engage with other institutions for some course offerings in the future, there is likely to be much choice in how the courses will be delivered and received. The nature of potential partnerships may take various forms such as exchange possibilities, encouraging students to take courses at other Ontario universities through the Ontario Visiting Graduate Student program, collaborating on grants, guest lecturing at other university faculties. At least one of the courses offered will be delivered online for the benefit of students at partner institutions. However, the two core courses will need to have a combination of online and face-to-face because some facilitation skills are best taught that way and because individuals in the group need to work together. There will be a compulsory onsite element geared towards our anticipated student population and scheduled in the summer semester, evenings and over weekends.

### Quality Assurance and Academic Evaluations

The proposed University of Western Ontario Diploma in Community Music will ensure that students will have opportunities to interact and participate freely in the shaping and criteria for their specific programs of study. Evaluations in any given course may take multiple forms from written assignments, feedback on live or videotaped sessions and presentations to portfolios assessments. The Faculty expects graduate level work from its graduate students.

Similar programs at other universities. In what ways will this program be unique or innovative?

The proposed University of Western Ontario Diploma in Community Music would be the first of its kind in Canada. At present there is an undergraduate emphasis in programs in community music at Wilfred Laurier University. It appears that the University of Windsor is talking about a community arts program. There is also a new doctoral program at New York University in Community Music. Likewise there are courses being formulated at Boston University. However, there do not appear to be any other graduate diploma initiatives in the field in North America. On an international scale, there are a few models that are operating very successfully.

Resources

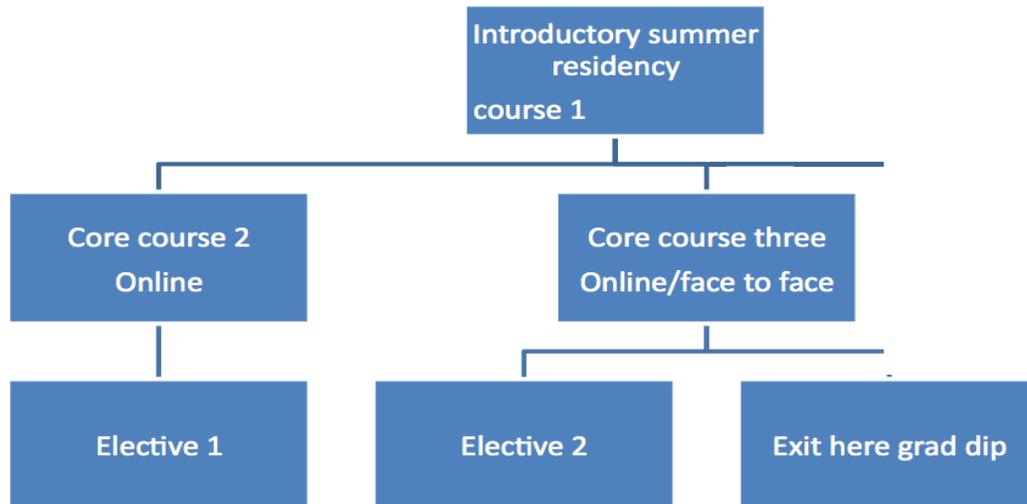
The Music Library and Talbot College are scheduled for renovations that will support the diploma program. The Faculty's library colleagues have been consulted and necessary resources are available.

Core Faculty

Kari Veblen, Associate Professor Music Education, Associate Dean of Grad Studies & Research  
Ruth Wright, Associate Professor of Music Education, Chair of Music Education  
Viki Meredith, Professor of Music Education, Associate Dean of Undergraduate Studies  
Gerald Neufeld, Associate Professor of Music Education  
Colleen Richardson, Assistant Professor of Music Education  
Kevin Watson, Assistant Professor of Music Education  
Paul Woodford, Associate Professor of Music Education  
Proposed core faculty have a record of scholarly activity appropriate to the needs of the proposed program (See CVs attached)

Core Courses

A flow chart of the core courses would look something like this



These courses may be taken as a stand-alone block or in conjunction with elective courses.

Core Courses

- Community Music Workshopping Skills/ Collaborative Leadership I  
This interactive course is designed to develop initial observation, evaluation, communication and teaching techniques and skills necessary for work in community music. While musical competencies are assumed, this course provides further musical work in ensemble skills, basic conducting, ensemble percussion work, composition, arranging improvisation and songwriting.

- Community Music Workshopping Skills/ Collaborative Leadership II  
In this course, students will consolidate the observation, evaluation, communication and teaching techniques and skills developed in CMWS/CL-I. The course provides further musical work in a range of genres but with greater emphasis of working in the community rather than with peers.
- Community Music in Practice  
This course is a year-long practicum with interactive components over the course of two semesters. Students will meet to reflect on this as a group at scheduled points in the process. This action-research practicum allows the student to participate, observe and reflect on structures, systems, logistics, funding etc. of actual community music programs. These programs may include orchestral outreach, prison and probation services, day-care centres, health settings, residential homes, youth services, adult education, music venues, voluntary service and multicultural arts groups. The course culminates in a final plan for project management and development.

#### Elective Courses

- Managing and Adminstrating Community Music Leadership (Ivey)  
This course, to be developed and taught through Richard Ivey School of Business will develop skills in practical management and financial planning. Students will have the opportunity to explore successful business enterprises, to work on development plans for their own projects and to study various funding and grant opportunities. Our students will join other Ivey students.
- M3861b Special Topics: Focus on Elementary Curriculum and Canadian Content  
This music education course surveys Canadian music and cultural perspectives. Although Canada may be said to be a nation of immigrants, there are unique musics both old and new in this pluralistic society.
- Global Perspectives On Community Music  
This online course is an inquiry-driven graduate seminar combining current scholarship in community music with ethnographic techniques of participant observation and interview. In addition to heavy use of major reference works, and emerging international research in community music, students will have an opportunity to interact with guest speakers.

This proposal is limited to what the Faculty itself can offer and deliver. However, students have the opportunity to select a graduate course in related music, music education and popular music streams as appropriate for their specific programs. A more comprehensive menu and listing of electives will be developed as intended and informal collaborations become a reality.

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## **Master of Engineering (MEng) Introduction of a New Field “HVAC Systems” Major Modification**

### **OVERVIEW OF THE NEW FIELD**

Heating, Ventilating and Air Conditioning (HVAC) deals with providing air at specific conditions (temperature, humidity, air quality, etc) to a building space. HVAC systems are installed in almost all types of buildings, such as, commercial, institutional, residential, health care, storage, etc. As the HVAC systems provide air at the desired conditions, their demand is equally important in both cold as well as warm environments. As a result, the HVAC industry is well-established all over the world. Globally, buildings consume up to 40% of the total energy and almost 50% of the building energy is consumed by the HVAC systems<sup>1</sup>. There is a continuous growth of the HVAC industry. The increase in demand for the HVAC systems has been projected as 6.2% per year reaching \$93 billion by 2014<sup>2</sup>.

HVAC industry is heavily relied on mechanical engineers. The demand of mechanical engineers in the HVAC industry is at three levels; (i) designing stage, (ii) installation/commissioning stage, and (iii) operation and maintenance stage that covers the entire lifetime of the system. As the HVAC systems are utilized everywhere, there is a consistent demand of mechanical engineers in the HVAC industry all over the world. With the recent environmental awareness and the rise in the energy cost, there is a strong pressure on the HVAC industry to develop new concepts involving renewable energies to minimize the building energy consumption from conventional resources, which opens a new venue in this field.

The Department of Mechanical and Materials Engineering (MME) proposes the introduction of a new field ( HVAC Systems) in the existing Non-thesis Master of Engineering (MEng) program.

#### Program Objectives:

The program is aimed at graduate mechanical engineers who want a career in the dynamic and growing HVAC industry. The proposed change is structured to widen the knowledge base of the engineering graduates in the HVAC-related fields from fundamental as well as applied aspects.

#### Strategic value to Western:

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<sup>1</sup> Pérez-Lombard et al. *A review on buildings energy consumption information, Energy and Buildings, Vol.40, 394-398, 2008.*

<sup>2</sup> *World HVAC Equipment, Published by The Freedonia Group, Inc., 2010.*

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The proposed field falls within the broader areas of advanced fluid mechanics (from fundamental aspect) and environmental sustainability (from energy efficiency and renewable energy aspects) which are recognized as areas of research strength at Western in the UWO Strategic Plan 2008-11. The proposed MEng field in HVAC systems is considered as one of the niche areas in the Western Engineering Strategic Academic Plan 2011-14.

#### Program Details:

Mechanical engineering graduates with a Bachelor's degree in Engineering, or an equivalent degree from an accredited University with a minimum of 70% (computed based on the last two years of a bachelor's degree marks, or on their previous graduate marks) are eligible to register in the existing MEng Program. These existing requirements will also apply to admission to the proposed HVAC field.

The MEng program is comprised of 10 half courses or 8 half courses and a project (equivalent to two half courses), divided into three categories.

The first category (Category A) is comprised of courses that cover the advanced topics from the mechanical engineering core which are essential as they bring the minimum knowledge base of bachelor's degree holder mechanical engineer to the graduate level. There are six core half courses in this category as listed below, and students have to complete four out of six courses.

#### Category A

<i>MME 9515</i>	<i>Fluid Machinery</i>
<i>MME 9610</i>	<i>Applied Measurements &amp; Sensing Systems</i>
<i>MME 9612</i>	<i>Finite Element Methods</i>
<i>MME 9614</i>	<i>Applied Computational Fluid Mechanics and Heat Transfer</i>
<i>MME 9617</i>	<i>Energy Conversion</i>
<i>MME 9621</i>	<i>Computational Methods in Engineering</i>

Note that the courses in this category are offered on a regular basis as part of the existing graduate program in the Department of Mechanical and Materials Engineering.

The second category (Category B) is comprised of professional engineering courses which are general requirements for the existing MEng program in the Faculty of Engineering. There are four half courses in this category as listed below, and students are required to complete two out of four courses.

#### Category B

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<i>CBE 9185</i>	<i>Risk Assessment and Management in Engineering Systems</i>
<i>CEE 9510</i>	<i>Engineering Planning and Project Management</i>
<i>ECE 9010</i>	<i>Intellectual Property for Engineers</i>
<i>MME 9670</i>	<i>Engineering Communication</i>

Note that the courses in this category are offered on a regular basis as a part of the existing graduate program in the Faculty of Engineering.

The third category (Category C) is the specialization in the HVAC systems. There are four courses in this category, as listed below, which cover the necessary aspects of the HVAC systems engineering. Two courses (MME 9516 and MME 9517) are already offered on a regular basis as a part of the graduate program in the Department of Mechanical and Materials Engineering. We have found these HVAC courses to be very popular and effective; however, broader knowledge base and depth in this area is necessary to become a specialist in this field. Therefore we have expanded our offering by introducing two new courses (MME 9641 and MME 9642), which provide the required broader knowledge base and depth. Furthermore, an MEng project option is also available in this category which is equivalent to two half courses. The MEng projects will be mainly industry-oriented which will provide a practical experience and an exposure to the HVAC industry. In this category, students have two options, (i) complete all four courses, or (ii) complete two courses and an MEng project. The second option (ii) will only be available to the students who have already completed HVAC I and HVAC II or equivalent courses in the previous degree.

#### Category C

<i>MME 9516</i>	<i>HVAC I</i>
<i>MME 9517</i>	<i>HVAC II</i>
<i>MME 9641</i>	<i>Thermal Systems Engineering</i>
<i>MME 9642</i>	<i>Building Systems Engineering</i>

The four specialized graduate courses to be offered in Category C cover all relevant areas of the HVAC Systems engineering and develop the knowledge base. A brief review of each of these courses is provided below:

MME 9516 (HVAC I) covers the main HVAC psychrometric processes, heating and cooling load calculations, and refrigeration cycles. The course also has a lab component and a design project. Students also learn an HVAC modeling software HAP, which is widely used by the HVAC industry.

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MME 9517 aims to developing students' knowledge and understanding of the design of main HVAC sub-systems for example, air and water distribution systems, fan/pump sizing and selection, and the selection of HVAC system components such as chillers, boilers etc. The course has a design project. Field trips to the local HVAC systems' sites are also a part of the course. In addition, guest lectures are also arranged where industry experts in various HVAC components share their knowledge and experience with the students.

MME 9641 (*Thermal Systems Engineering*) covers the fundamental theory, basic design criterion and in-depth analysis of different thermal sub-systems used in the HVAC systems, which include heat exchangers, refrigeration systems, heat pumps, and engines. The course also has a lab component.

MME 9642 (*Building Systems Engineering*) covers the fundamentals of the building sub-systems. As the HVAC systems are installed in all types of buildings, the knowledge of the building sub-systems and the building energy consumption is vital for the proper design, selection, operation and maintenance of the HVAC systems. The course also introduces the energy efficiency in buildings and the use of renewable energies in buildings, which are in line with the new trends in the HVAC industry.

The six graduate courses to be offered in Category A cover the broader knowledge base to further strengthen the fundamentals that can be applied in the HVAC field. For example, MME 9515 (Fluid Machinery) conducts an in-depth analysis of pumps which are essential components in the HVAC systems; MME 9610 (Applied Measurements & Sensing Systems) widens the knowledge base from instrumentation and measurement perspective which is important from the monitoring and control aspects of HVAC systems; MME 9612 (Finite Element Methods) covers the stress analysis which is useful from the structural aspects; MME 9614 (Applied Computational Fluid Mechanics and Heat Transfer) trains students on using simulation tools to simulate fundamental thermo-fluid processes, which are also involved in HVAC systems; MME 9617 (Energy Conversion) focuses on various energy resources and energy conversion processes which would be useful in developing energy efficiency strategies and integrating renewable energies to minimize the building energy consumption from conventional resources; MME 9621 (Computational Methods in Engineering) covers important methods and techniques used in the numerical analysis of mechanical engineering problems, which could be helpful in the general analyses.

### **Consultation process in the preparation of the brief, including faculty and student input and involvement**

The proposed program was presented and discussed at the MME Department Council meeting and unanimously approved. The program was also consulted with the local HVAC industry and the local chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers

(ASHRAE) and they have assured cooperation in soliciting industry-oriented projects. The program was then discussed at the Graduate Chairs committee meeting in the Faculty of Engineering and approved. Finally, the program was discussed at the Faculty council and unanimously approved.

### **Evidence to support the introduction of the program**

As mentioned earlier, HVAC is a growing industry but at the same time it is not significantly influenced by the economic variations as the HVAC systems are considered as basic necessities. Therefore, there is a consistent demand of mechanical engineers in the global HVAC industry. The advanced knowledge of the HVAC profession and the practical experience (in the form of MEng projects) will place the graduates from this program in a preferred standing for the potential HVAC industry employers as compared to the regular mechanical engineering graduate. In MME, we offer two toggle HVAC courses as fourth year technical electives. Both of these courses are very popular among 4<sup>th</sup> year undergraduates and we expect that the proposed program will motivate a large number of these students to pursue Master's degree.

### **Special matters and innovative features**

The proposed program is unique to Ontario and Canada. Even very few universities in the US or around the world offer graduate program in HVAC. Therefore, it would serve as a niche area in the Western Engineering. Due to the uniqueness of the program at the national and international levels, it will attract national as well as international students.

### **Listing of faculty members in the program**

Primary members:

- a) tenured or tenure-track core faculty members whose graduate involvement is primarily in the graduate program under review
  1. Dr. Roger Khayat, Associate Professor, Mechanical and Materials Engineering
  2. Dr. Michael Naish, Associate Professor, Mechanical and Materials Engineering
  3. Dr. Eric Savory, Associate Professor, Mechanical and Materials Engineering
  4. Dr. Kamran Siddiqui, Associate Professor, Mechanical and Materials Engineering
  5. Dr. Anand Singh, Professor, Mechanical and Materials Engineering
  6. Dr. Anthony G. Straatman, Professor, Mechanical and Materials Engineering
  7. Dr. Chao Zhang, Professor, Mechanical and Materials Engineering

Other:

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1. Walid Altahan, Laboratory Manager, Mechanical and Materials Engineering

- There are 7 full-time Primary tenured professors and one staff member. These members will have the primary responsibility for the courses in Categories A and C. Four primary professors (E. Savory, K. Siddiqui, A. Straatman and C. Zhang) and the staff member (W. Altahan) will also be responsible for the supervision of the MEng projects in the program. The staff member Walid Altahan is a permanent staff member (Laboratory Manager) in the department since 2003. He holds an MEng degree in Mechanical Engineering and has a vast industrial experience in HVAC systems. He is eligible to teach graduate courses in the department and has been teaching HVAC I and HVAC II since 2007. Walid has made several improvements in the content and delivery of both courses and has received USC Teaching Honour Roll Award and Terry Base Teaching Award for these courses. Two primary tenured professors (K. Siddiqui and C. Zhang) have taught HVAC courses in the past and could take over these courses if necessary.
- The department also has an HVAC Resource Laboratory equipped with an educational Air Handling Unit and computer workstations with HVAC modeling software HAP.

**ANNOUNCEMENTS & COMMUNICATIONS**

FOR INFORMATION

**ANNOUNCEMENTS**

**Schulich School of Medicine & Dentistry**

G. Cooper, Associate Dean, Windsor Program, September 1, 2011 – August 31, 2016

H. Sandhu, Director, Dentistry, July 1, 2011 – June 30, 2017

**Western Libraries**

C. Martin, Metadata Access, Library Information Resources Management, Acting Dept. Head, August 15, 2011 – August 12, 2012

**Faculty of Health Sciences**

T. Overend, Director, School of Physical Therapy, July 1, 2009 – June 30, 2014 (extended for two years)