MEETING OF THE FACULTY COUNCIL OF THE FACULTY OF SCIENCE

A regular meeting of the Faculty Council of the Faculty of Science will be held on Wednesday, September 21, 2016, at 1 p.m. in C-2045.

AGENDA

1. Regrets
2. Adoption of the Minutes of April 27, 2016
3. Business Arising from the Minutes
4. Correspondence: None
5. Reports of Standing Committees:
   A. Undergraduate Studies Committee: None
   B. Graduate Studies Committee:
      a. Department of Computer Science, special topics course, COMP 6917, Complex Networks, paper 5.B.a (4 pages), presented to Faculty Council for information only.
      b. Department of Earth Sciences, special topics course, EASC 6930, Sea Floor Hydrothermal Processes, paper 5.B.b (4 pages), presented to Faculty Council for information only.
      c. Department of Psychology, special topics course, PSYC 6116, Human Depth Perception: Normal and Abnormal Development, paper 5.B.c (7 pages), presented to Faculty Council for information only.
   C. Nominating Committee:
      a. Approval of committee matrix, paper 5.C.a (3 pages)
   D. Library Committee: None
6. Reports of Chair in Teaching & Learning and Embedded DELTS Teaching Consultant
7. Reports of Delegates from Other Councils
8. Co-op Education Representation on Senate, paper 8 (1 page)
10. Question Period
11. Adjournment

Mark Abrahams
Dean of Science
FACULTY OF SCIENCE
FACULTY COUNCIL OF SCIENCE
MINUTES OF MEETING OF April 27, 2016

A meeting of the Faculty Council of the Faculty of Science was held on Wednesday, April 27, 2016, at 1:00 p.m. in room C-2045.

FSC 2431  Present
Biochemistry
Berry, M.

Chemistry
Flinn, C.  Fridgen, T.  Merschrod, E.

Computer Science
Banzhaf, W.  Hu, T.

Earth Sciences
Hanchar, J.

Mathematics & Statistics
Loredo-Osti, J.  Radford, C.  Sullivan, S.

Physics & Physical Oceanography
Lagowski, J.  Saika-Voivod, I.

Psychology
Neath, I.  Thorpe, C.

Dean of Science
Abrahams, M.  Foster, A.  Harding, S.  Mackenzie, T.
Wall, M.  Zedel, L.

DELTs
Todd, A.

Medicine
Kendall, E.
School of Music
Cook, N.

FSC 2432 Regrets
Xili Duan  Joel Finnis  Marco Merkli  Jillian Westcott

FSC 2433 Adoption of Minutes
Moved: Minutes of the March 16, 2016, meeting be adopted (Sullivan/Berry).
Carried.

FSC 2434 Business Arising:  None
FSC 2435 Correspondence:  None

FSC 2436 Reports of Standing Committees:

A. Undergraduate Studies Committee
Report presented by Shannon Sullivan, Chair, Undergraduate Studies Committee
a. Moved: Department of Physics and Physical Oceanography, calendar changes (Sullivan/Lagowski). Carried.
b. Moved: Department of Chemistry, calendar changes (Sullivan/Fridgen). Carried.
c. Moved: Department of Chemistry, proposal for new course, CHEM 4620, Environmental Chemistry (Sullivan, Fridgen). Carried.
d. Moved: Department of Mathematics & Statistics calendar changes (Sullivan, Loredo-Osti). Carried.
e. Moved: Department of Mathematics & Statistics, proposal for new course, MATH 4252/PHYS 4852, Quantum Information and Computing (Sullivan/Lagowski). Carried. Discussion on this new course involved potential future collaboration with Computer Science as well as possible future crosslisting with Computer Science.

B. Graduate Studies Committee
Report presented by J.C. Loredo-Osti, Chair, Graduate Studies Committee.
a. Moved: Department of Chemistry, proposal for new course, CHEM 6620, Environmental Chemistry (Loredo-Osti/Fridgen). Carried. The Chemistry Department intends to internally credit restrict the courses CHEM 4620 and CHEM 6620. Students doing CHEM 6620 will be expected to complete assignments at a higher level than those doing CHEM 4620. The Dean asked that the Faculty of Science graduate studies committee investigate the matter of credit restriction between undergraduate and graduate courses and report back to Faculty Council.
C. Nominating Committee: None
D. Library Committee: None

FSC 2437 Reports of Chair in Teaching & Learning and Embedded DELTS Teaching Consultant
Presented by Amy Todd, Embedded DELTS Teaching Consultant.

The Faculty of Science Teaching and Learning Retreat, organized by Danny Dyer, took place on April 21 at the Geo Centre with approximately 30 faculty and staff in attendance. The purpose of the retreat was to establish a teaching and learning community in the Faculty of Science. Christina Thorpe, co-organizer, stated that the retreat was a success and a series of monthly lunch-time sessions on teaching and learning would be beneficial. Danny Dyer, Amy Todd, and Christina Thorpe will work with the Dean’s Office over the next month to determine the next steps and activities to help foster this community.

Four nominations were received for the President’s Awards for Excellence in Teaching and Graduate Supervision – three were from the Faculty of Science and one was from the Division of Science, Grenfell College. This is a big step forward in comparison to the lack of nominations in previous years.

The Teaching and Learning Framework Funding Competition has received 53 letters of intent this year. Although the total number of applications from the Faculty of Science has not been reported, Amy Todd has been involved with seven proposals so far spanning six departments.

Effective May 1, DELTS will change its name to “Centre for Innovation in Teaching and Learning” (CITL) to better reflect the department and the type of support offered.

Amy Todd asked Heads to remind Faculty members of her support in the process of course revision. In addition, Amy can provide support to any departments who are interested in working on program alignment and curriculum mapping.

FSC 2438 Reports of Delegates from Other Councils: None

FSC 2439 Report of the Dean
Presented by Mark Abrahams, Dean.

Permission to proceed to go to the main tender for the construction of the Core Science Facility was approved by the provincial government. It is the Dean’s understanding that this phase of the project should provide the most dramatic changes as the building starts to take shape later this year.

The Canada First Excellence Research Fund proposal was submitted prior to the deadline on March 29. The proposal is seeking just under $100M through this
fund, with the total value of the proposal at $233M. This includes cash and in-kind contributions from our international and industrial partners, federal and provincial agencies, university contributions, and a conditional philanthropic contribution to Dalhousie University. We will be advised on July 7 or 8 whether this proposal has made the final group of competing proposals. If so, a delegation of three individuals will meet with the selection board in Toronto on July 17 or 18 and provided 10 minutes for introductory remarks and 30 minutes for questions and answers. Results will be announced in Summer 2016 with funds becoming available in the 2016/2017 fiscal year pending Treasury Board approval and parliamentary appropriation of funds.

The President presented to Senate the budget that we have received to date from the provincial government. This budget introduces a sequence of budget cuts to the institution that will total an annual reduction of $18.9 M. Implementing these cuts without any other sources of revenue will compromise the quality and breadth of programs that we offer. The university is currently assessing what other options to pursue.

A joint meeting was held on April 26 for the Departments of Biology and Ocean Sciences to decide how to proceed with the development of an undergraduate biology stream within the department of Ocean Sciences. At that meeting, there was consensus that the best way forward was for the two departments to join forces in the development of this program. Dr. Andy Foster, Associate Dean (Undergraduate & Administration) will work with both departments in developing the details that accompany this initiative.

The Dean announced that this is the last Science Faculty Council meeting for this academic year. Regular meetings will resume in September.

**FSC 2440 Question Period**
The Dean was questioned on whether there was a strategy being implemented to help offset budget cuts by increasing tuition and still maintain the lowest tuition in Canada. He was also asked if there was any strategy to equalize tuition for Canadian and International graduate students. He explained that he has been appointed a member of the committee, struck by the Provost, to establish a framework to consider tuition increases.

**FSC 2441 Adjournment**
The meeting adjourned at 1:27 p.m.
Request for Approval of a Graduate Course

Adobe Reader, minimum version 8, is required to complete this form. Download the latest version: http://get.adobe.com/reader. (1) Save the form by clicking on the diskette icon on the upper left side of the screen; (2) Ensure that you are saving the file in PDF format; (3) Specify where you would like to save the file, e.g. Desktop; (4) Fill in the required data and save the file; (5) Submit the completed form to:

School of Graduate Studies; Memorial University of Newfoundland; ICC-2012 (Bruno Centre for Research and Innovation); St. John’s, NL A1C 5S7 Canada Fax: 709.864.4702 eMail: sgs@mun.ca

To: Dean, School of Graduate Studies
From: Faculty/School/Department/Program
Subject: Regular Course [ ] Special/Selected Topics Course

Course No.: COMP 6917
Course Title: Complex Networks

I. To be completed for all requests:

A. Course Type:
   - [X] Lecture course
   - [ ] Laboratory course
   - [ ] Directed readings
   - [ ] Lecture course with laboratory
   - [ ] Undergraduate course
   - [ ] Other (please specify) Project (+ Presentation)

B. Can this course be offered by existing faculty? [X] Yes [ ] No

C. Will this course require new funding (including payment of instructor, labs, equipment, etc.)?
   - [ ] Yes
   - [X] No

D. Credit hours for this course: 3

E. Estimated number of contact hours per semester: 48

F. Course description (reading list required):
   Please see attached sheets (3)

G. Method of evaluation:

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Total 100

1 Must specify the additional work at the graduate level
II. To be completed for special/selected topics course requests only

For special/selected topics courses, there is no evidence of:

1. duplication of thesis work
   Instructor's initials: TH.

2. double credit
   Instructor's initials: TH.

3. work that is a faculty research product
   Instructor's initials: TH.

4. overlap with existing courses
   Instructor's initials: TH.

Recommended for offering in the: ☑ Fall ☐ Winter ☐ Spring 2016

Length of session if less than a semester:

III. This course proposal has been prepared in accordance with General Regulations governing the School of Graduate Studies

[Signature]

Course instructor

[Signature]

Approval of the head of the academic unit

May 4, 2016

Date

May 4, 2016

Date

IV. This course proposal was approved by the Faculty/School/Council

[Signature]

Secretary, Faculty/School/Council

June 22, 2016

Date

Updated October 2011
Special Topics Course
COMP 6917
Complex Networks

Students Interested
This is a special topics course for graduate students who are interested in mathematical and
algorithmic aspects of large networked structures.

Rationale
Complex problems emerging from various disciplines and interaction of large amount of data
can be modelled with networks. Networks are powerful tools for making sense of the world in
the big-data era.

Objectives of the Course
The scientific study of networks, including computer networks, social networks, and biological
networks, has received an enormous amount of interest recently. The rise of the Internet, the
wide availability of inexpensive computers, and penetration of smart mobile devices have made
it possible to gather and analyze network data on a large scale, and the development of a variety
of new theoretical tools has allowed us to extract new knowledge from many different kinds of
networks. The study of large, complex networks is broadly interdisciplinary and important
developments have occurred in many fields, including mathematics, physics, computer and
information sciences, biology, and the social sciences. Subjects covered in this course include
the measurement and structure of networks, the fundamentals of network theory, computer
algorithms, and spectral methods and mathematical models of networks, all at a much greater
scale.

Background
• Algorithms
• Graph theory

Representative Course Outline
• Empirical studies of networks
  o technological networks
  o social networks
  o biological networks
  (6 hours)
• Fundamentals of network theory
  o mathematics of networks
  o measures and metrics
  (8 hours)
- large-scale structure of networks

- Network algorithms
  - computation of variants of centrality
  - community detection and clustering
  - determination of connected components
  - flows and cuts

- Network models
  - random graphs
  - network formation

- Processes on networks
  - percolation
  - epidemics

Method of Evaluation

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Credit Restrictions

N/A

Suggested texts/references


Instructors

Y. Chen and T. Hu

Calendar Entry

COMP 6917 --- Complex Networks
Request for Approval of a Graduate Course

Adobe Reader, minimum version 8, is required to complete this form. Download the latest version: [get.adobe.com/reader]. (1) Save the form by clicking on the diskette icon on the upper left side of the screen; (2) Ensure that you are saving the file in PDF format; (3) Specify where you would like to save the file, e.g., Desktop; (4) Fill in the required data and save the file; (5) Submit the completed form to:

School of Graduate Studies
Memorial University of Newfoundland
110 (Bruneau Centre for Research and Innovation)
St. John’s, NL A1C 5S7 Canada
Fax: 709.864.4702 eMail: sgs@mun.ca

To: Dean, School of Graduate Studies

From: Faculty/School/Department/Program

Subject: [☐] Regular Course [☐] Special/Selected Topics Course

Course No.: EASC 693

Course Title: Seafloor Hydrothermal Processes

I. To be completed for all requests:

A. Course Type:

☐ Lecture course
☐ Laboratory course
☑ Directed readings
☐ Lecture course with laboratory
☐ Undergraduate course
☐ Other (please specify) Class Discussion Participation

B. Can this course be offered by existing faculty?

☑ Yes ☐ No

C. Will this course require new funding (including payment of instructor, labs, equipment, etc.)?

☐ Yes ☑ No

If yes, please specify:

D. Credit hours for this course: 3

E. Estimated number of contact hours per semester: 36

F. Course description (reading list required):

This course covers the fundamental physical, chemical and geological processes associated with submarine hydrothermal systems. Topics will include: fluid chemistry and phase separation, seafloor massive sulfide mineralogy, geochronology and tectonic controls, stable isotope systematics, mass balance, marine exploration and economic geology. Course material will be discussed in terms of both processes and specific case studies, both modern and ancient.

G. Method of evaluation:

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Total 40 60

1 Must specify the additional work at the graduate level
II. To be completed for special/selected topics course requests only

For special/selected topics courses, there is no evidence of:

1. duplication of thesis work
2. double credit
3. work that is a faculty research product
4. overlap with existing courses

Instructor's Initials

Recommended for offering in the

☐ Fall  ☐ Winter  ☐ Spring  2016

Length of session if less than a semester:

III. This course proposal has been prepared in accordance with General Regulations governing the School of Graduate Studies

John Jamieson  
Course Instructor

04/03/2016  
Date

Approval of the head of the academic unit

June 8, 2011  
Date

IV. This course proposal was approved by the Faculty/School/Council

Secretary, Faculty/School/Council

June 22, 2011  
Date

Updated October 2011
Seafloor Hydrothermal Processes – Preliminary Reading List:

Mineralogy/Geochemistry: (Hannington et al., 1995, Hannington et al., 2005, Petersen et al., 2009, Rona et al., 1993, Tivey and McDuff, 1990)
Geochronology: (Jahieszon et al., 2013, de Ronde et al., 2005, Ditchburn et al., 2004, Kuznetsov et al., 2007)
Tectonics: (Hannington et al., 2005)
Stable Isotopes: (Ohmoto, 1996, Ono et al., 2007)
Marine Exploration: (Jahieszon et al., 2014)
Economic Geology: (Hannington et al., 2010, Hannington et al., 2011)


Request for Approval of a Graduate Course

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School of Graduate Studies; Memorial University of Newfoundland; IIC-2012 (Brunelle Centre for Research and Innovation); St. John's, NL A1C 5S7 Canada Fax: 709.864.4702 eMail: ses@mun.ca

To: Dean, School of Graduate Studies
From: Faculty/School/Department/Program
Subject: □ Regular Course  ☑ Special/Selected Topics Course

Course No.: Psychology 6116

Course Title: Human and Depth Perception: Normal and Abnormal Development

I. To be completed for all requests:

A. Course Type:  ☑ Lecture course  □ Lecture course with laboratory  
   □ Laboratory course  □ Undergraduate course1  
   □ Directed readings  □ Other (please specify)

B. Can this course be offered by existing faculty?  ☑ Yes  □ No

C. Will this course require new funding (including payment of instructor, labs, equipment, etc.)?  □ Yes  ☑ No

If yes, please specify:

D. Credit hours for this course: 3

E. Estimated number of contact hours per semester: 30

F. Course description (reading list required):
   Please see attached

G. Method of evaluation:

   Written  Oral
   Class tests
   Assignments  Two @ 50% each
   Other (specify):
   Final examination:

   Total  100%

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1 Must specify the additional work at the graduate level
III. To be completed for special/selected topics course requests only

For special/selected topics courses, there is no evidence of:

Instructor's initials

1. duplication of thesis work
   JD

2. double credit
   JD

3. work that is a faculty research product
   JD

4. overlap with existing courses
   JD

Recommended for offering in the
☑ Fall  □ Winter  □ Spring  2016

Length of session if less than a semester: Not less than a semester

III. This course proposal has been prepared in accordance with General Regulations governing the School of Graduate Studies

Course/instructor

[Signature]

June 20, 2016

Date

Approval of the head of the academic unit

[Signature]

June 20, 2016

Date

IV. This course proposal was approved by the Faculty/School/Council

Secretary, Faculty/School/Council

[Signature]

July 31, 2016

Date

Updated October 2011
Course Description

This course will provide a complete understanding of human depth perception (i.e., stereopsis). Specifically, the student will investigate what stereopsis is, the components of the brain and visual system that underlie this ability, and also its functional significance in everyday life.

The course will also focus on the normal and abnormal development of stereopsis. Specifically, the student will describe the impact of pediatric vision disorders on stereopsis during the critical period of visual development. Finally, the student will review the effectiveness of tests of stereopsis in detecting vision disorders in preschoolers.

The student will complete two written assignments in which she answers the following questions...

Assignment One: What is stereopsis? What is its functional significance? Which visual system mechanisms underlie stereopsis? Describe how it is typically measured in adults and children?

Assignment Two: Describe the normal development of stereopsis from birth to maturity. Describe how pediatric vision disorders affect stereopsis? Provide a complete review of the use of tests of stereopsis in vision screening programs.
Reading List


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<td>Yuanzhu Chen</td>
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**FACULTY OF SCIENCE AWARDS COMMITTEE**

Tom Chapman (C), Christina Bottaro, Alison Malcolm

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**REPRESENTATIVES FROM OTHER COUNCILS**

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**STUDENT UNIONS REPRESENTATIVES TO FACULTY COUNCIL**

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April 18, 2016

To: Sheila Singleton, Secretary of Senate

From: Dr. Greg F. Naterer, Dean

Subject: Co-op Education representation on Senate

Prior to the de-centralization of Co-op Education in 2014, Co-op had ex-officio representation on the Senate Committee on Undergraduate Studies through the Division of Co-op Education. However, this was lost after the Division was de-centralized to the academic units in 2014. I’m writing to recommend that appropriate Co-op representation is re-instated and that Senate recommends to the Board an appropriate form of representation that best serves the University.

Only tenured faculty and permanent librarians can be elected as senators. The question of including the Director of Co-op Education as an ex-officio member was discussed a few years ago. The membership of the Senate Committee on Undergraduate Studies was modified accordingly to include the Director. The Director’s seat still exists on SCUGS. However, there is no longer a Director or a Division.

In the recent past, ASM-CEs have not been eligible for election, in part because the Division of Co-operative Education was not a constituency of Senate. The Act gives the Board of Regents the authority to define the criteria/process for elections, which are included in the Senate by-laws. To be eligible for election, one must be a “tenured faculty member”.

Section II C (1) of the by-laws addresses eligibility. MI instructors are “permanent” rather than “tenured” and can be elected to Senate, but the Marine Institute is a specified exception. A possible solution to include ASM-CEs would be to amend the Senate by-laws and add “or permanent” immediately after “tenured” in Bylaw II C (1), clauses (a)(i) and (b)(i).

Co-op Education is a core element of many of Memorial’s programs; a key distinguishing feature that sets us above and apart from other universities; an essential element of our Teaching and Learning Framework through experiential learning; and one of the most memorable educational experiences of our alumni. I believe that Co-op Education should have an appropriate form of representation on Senate. Thank you for your consideration.

Sincerely,

Greg F. Naterer, PhD, PEng
Professor and Dean